# Implications of Aging Populations and Increased Longevity for National Governments

Steve Goss, Chief Actuary United States Social Security Administration

GAO/CNAO Joint Seminar Impacts of Aging Populations on National Governments

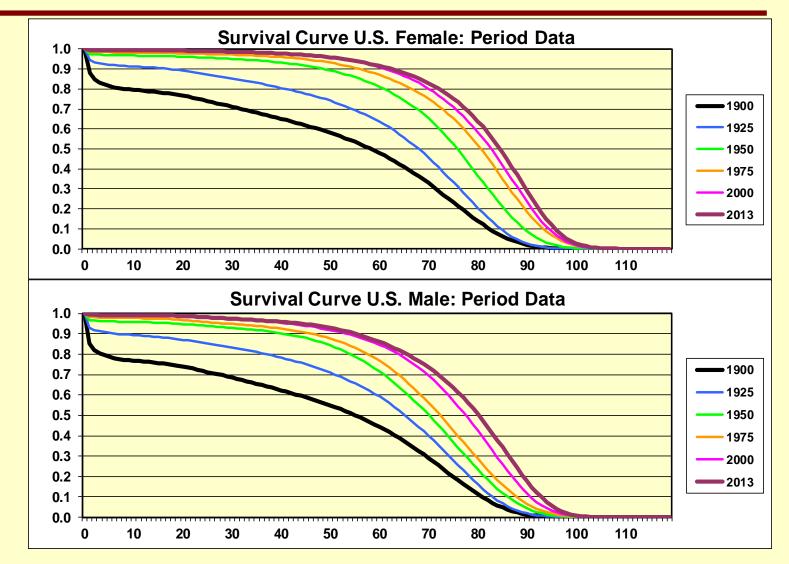
March 13, 2018

# **Developed Nations Are "Aging"**

"Macro aging" - Changing age distribution—getting older » Mainly from drop in birth rates • "Micro aging" - People are living longer » Lower death rates » Increasing longevity Different challenges—different solutions—consider the U.S.

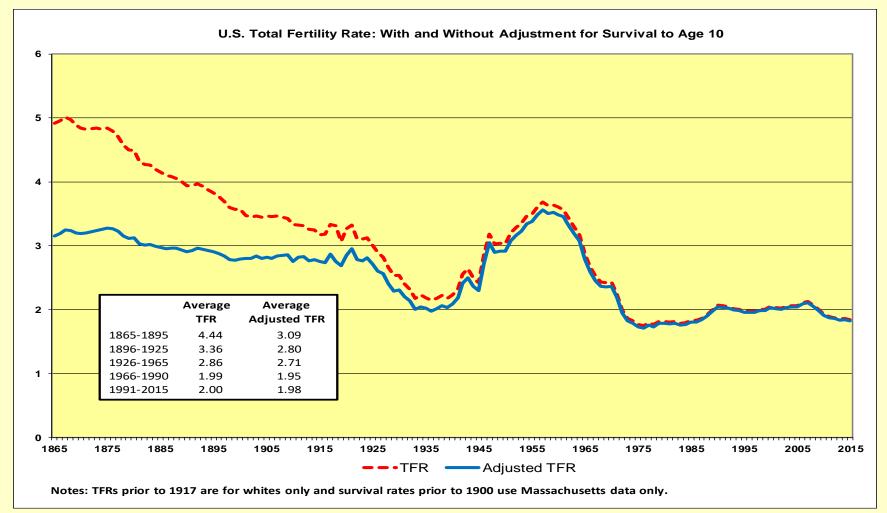
### **Micro Aging**

We are living longer, but there are limits, and progress is slowing

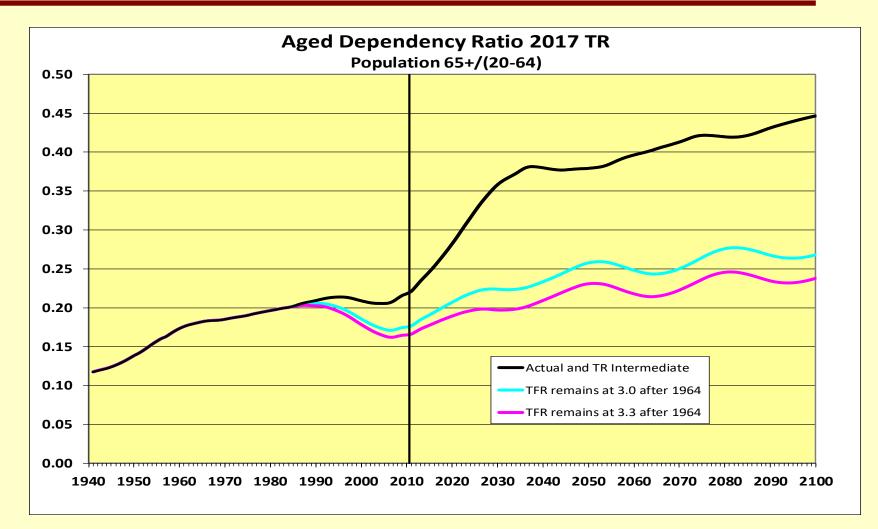


### Cause of "Macro Aging"

#### Mostly drop in birth rates

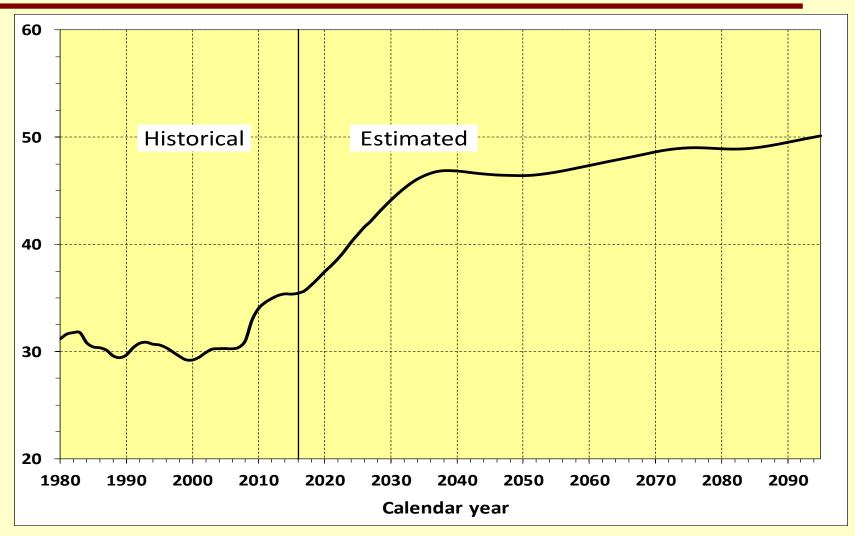


#### U.S. Drop in Birth Rate after 1965 Causes Dramatic Level Shift; Continuing Longevity Gains Are Gradual and Small



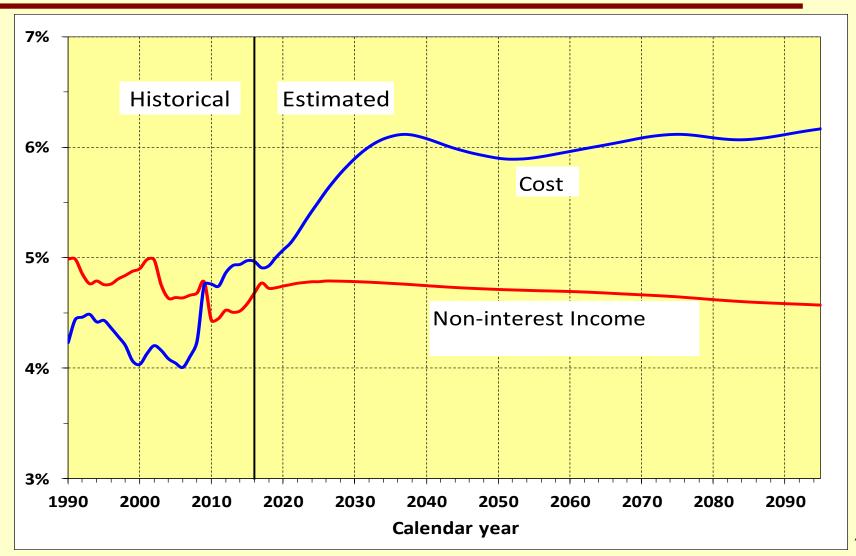
#### **Social Security Beneficiaries per 100 Workers**

Rise substantially due to this aging of the U.S. population



### **Social Security Cost as Percent of GDP**

For U.S., rises from a 4.2-percent average in 1990-2008, to about 6% by 2035 Cost for public and private pensions and health care rise similarly



### Implications of "Macro Aging"

What will we need to do?

- It is a pay-as-you-go world
  - In the aggregate, *consumption = production*

Solutions for dealing with aging population

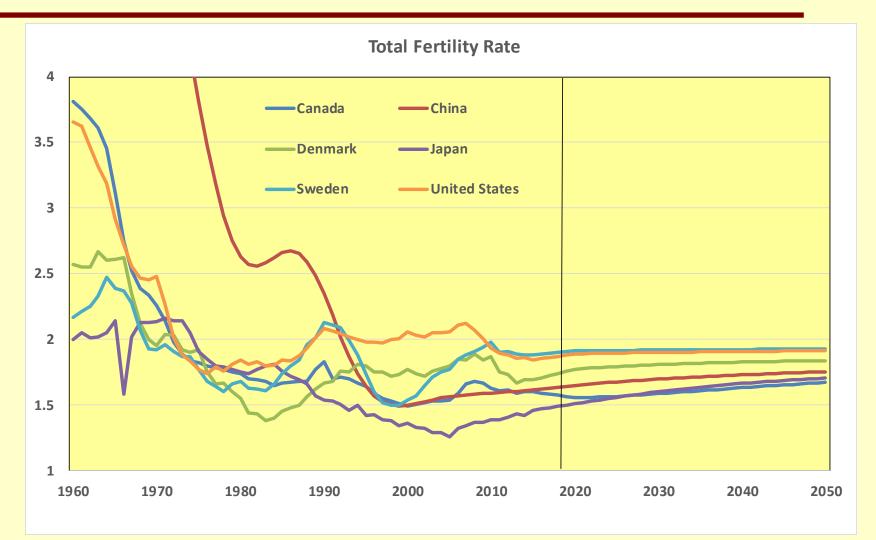
 The older age distribution for the U.S. requires:
 Elders consume less: 2/3 as much
 Working age share more: 3/2 as much
 Get elders to work a lot longer: 5 years, and more
 Or some combination

# We Are All Aging Together

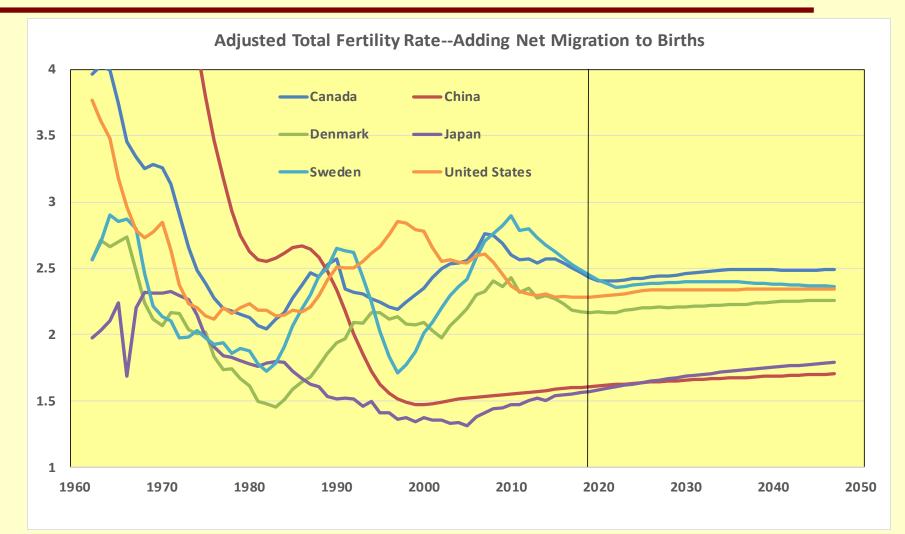
Canada, China, Denmark, Japan, Sweden, U.S. - World Bank international population projections Birth rates have dropped for all - Resulting in sudden shifts in age distribution Net immigration can help slow macro aging – Or can hasten it if young individuals emigrate Increasing longevity is gradual • We all have similar challenges

### **Birth Rates Now Below "Replacement"**

(below TFR of 2.1 for all six nations)

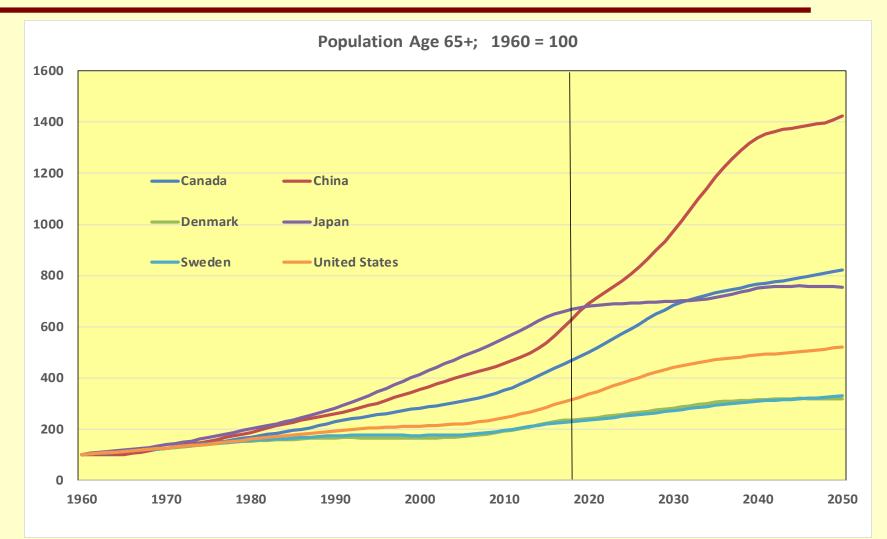


### Adding in Net Immigration Puts All But China and Japan Above "Replacement"

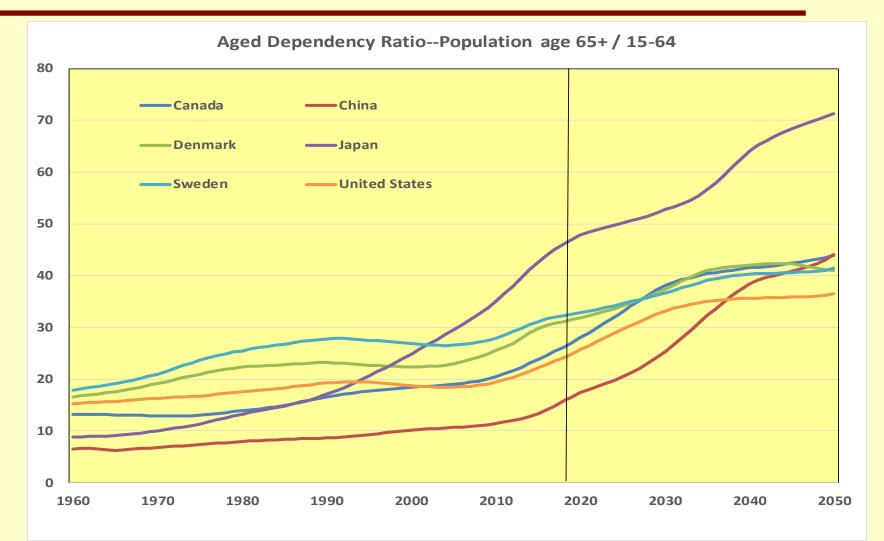


#### **Population Over Age 65 Is Increasing For All of Us**

But this is not really our challenge



#### In 2000, 65+ Were Less Than 30 per 100 at Working Ages By 2050, all but U.S expect over 40, Japan over 70



Implications for our National Governments, our Economies, our Populations

- GDP and total income will grow slower
  - So we will at least avoid overpopulation
- Those over 65 will live AND work longer
- Workers will share more of their income
- We may encourage more births
- Immigration can help, but we cannot all gain
- Our governments must plan for changes
  - Changes are needed VERY soon

For More Information... http://www.ssa.gov/oact/

- Annual Social Security Trustees Reports (U.S.) <u>https://www.ssa.gov/oact/TR/index.html</u>
- Documentation of Trustees Report data & assumptions <u>https://www.ssa.gov/oact/TR/2017/2017\_Long-</u> <u>Range\_Demographic\_Assumptions.pdf</u>
- International Population Projections—World Bank <u>https://datacatalog.worldbank.org/dataset/population-estimates-and-projections</u>