# The Economic Implications of the Declining Birth Rate in the United States

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current population.

Suppose we lived in an

economy with 53% of the

#### Introduction

- United States Current Birth Rate = 1.62 children per woman
  - Replacement Rate = 2.1 children per woman
- In 3 generations we will half as many ancestors
  - o Holding birth rate constant
- 20% decrease in birth rate since 2007
- Over 1 million less births in 2023 vs 2022 in the United States

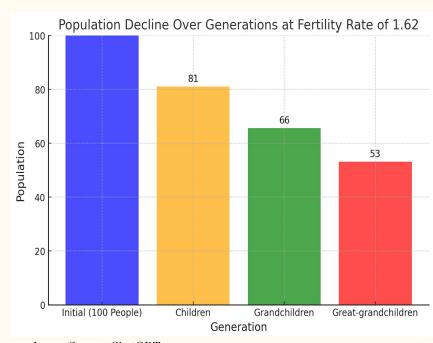


Image Source: ChatGPT

#### Causes of Declining Birth Rate

- Initial drop due to the Great Recession (2007-2009)
- Lack of Affordable Housing
  - House Price Index (HPI) doubled since 2009
- Child care costs
  - o 22% increase in daycare/preschool costs between 2020-2024 (BLS)
  - Costs of leaving work
- Shifting of priorities towards careers
- Contraception popularity

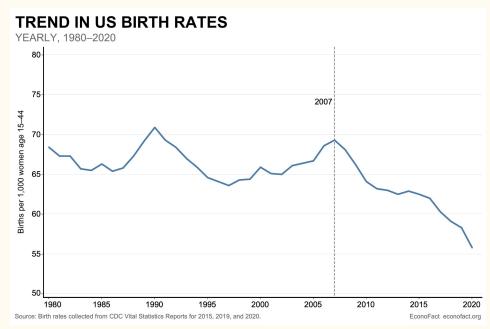
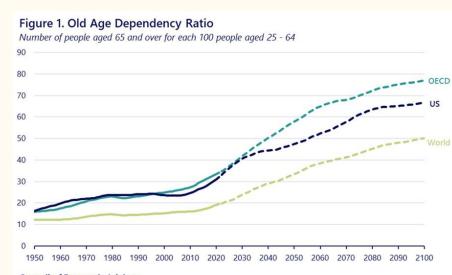


Image Source: The Puzzle of Falling US Birth Rates since the Great Recession (Kearney et. al)

#### The Problem: Economic Impact

- Increasing Old Age Dependency Ratio
- Less Labor Force Participation
  - Lower tax revenue
- Standard of Living decreases
  - Represented by Output per Capita
    - Output per Capita = output per worker\* workers per capita
- Slowing Economic Growth (GDP)
  - Ex) Japan's current stagnation over last 20 years
  - Less innovation



#### Council of Economic Advisers

Sources: UN World Population Data, 2022; CEA calculations.

Note: OECD is a simple mean of all OECD countries. Data after 2021 are projections using the UN medium variant projections.

As of May 6, 2024 at 6:00pm

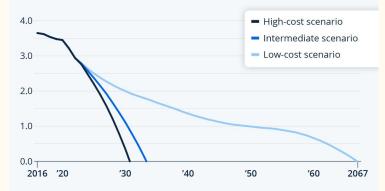
Image Source: A First-Principles Look at Historically Low U.S. Fertility and its Macroeconomic Implications (whitehouse.gov)

#### The Problem: Social Systems

- Challenges to Social Security Systems
  - Less working age people paying into Pension system
  - Project depletion between year 2031 and 2067 (SSA)
- Increased healthcare costs due to aging population
  - Without adequate support infrastructure

#### When Is the Social Security Trust Fund Running Out?

Social security asset reserve amounts at year-end (in trillion U.S. dollars) and scenarios of depletion

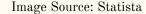


OASI&DI combined. In CPI-indexed 2023 dollars. Official SSA projection only until year before depleation Source: Social Security Administration 2023 OASDI Trustees Report



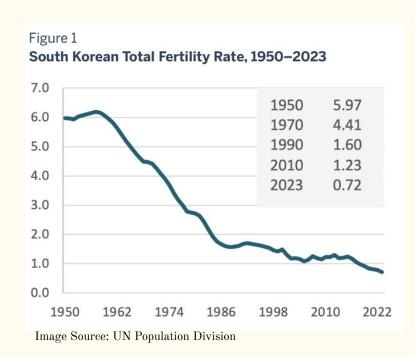






### Case Study: Learning From South Korea

- South Korean President Yoon Suk Yeol declares low birth rates a "national emergency"
- 0.72 children per woman in 2023
- \$200 billion spent over last 16 years to increase birth rate
  - o Minimal Effect
- Considered by many a band-aid solution
  - o Reactive Rather than Proactive
  - Provide short-term solutions



## Framework for Addressing Low Fertility Impacts

- Recall:
  - Standard of Living (output per capita) = output per worker \* workers per capita
- Increase Productivity
  - Leverage investments in technology to boost efficiency (AI)
- Adopt Flexible Immigration Policy
  - Increases labor supply to address shortages
- Implement pronatal policies
  - Reduce Childcare costs
  - Expand paid parental leave
  - Direct Government Incentives for families

#### Actionable Takeaways

- Encourage remote/flexible work models:
  - Reduces childcare costs (EIG)
  - May improve worker productivity (Barrero et. al)
- Implement Flexible Immigration Policies
  - Implement Visa reforms to attract foreign talent in high need industries, increasing labor supply
    - Ex) STEM, Healthcare, Childcare
  - Support Family-Based Immigration
    - Allow family reunification to stabilize communities



## Questions?