

Global, National, and Regional Demographic Trends Affecting Boston's Population **BPDA** Research Division

Census

COMING SOON:

Vintage 2023



#### Global, National, and Regional Demographic Trends Affecting Boston's Population

- Global Population Trends
- 2 United States Population Trends
- **3** Boston Population Trends
- 4 Summary
- **5** Next Presentation: Boston Population Projections

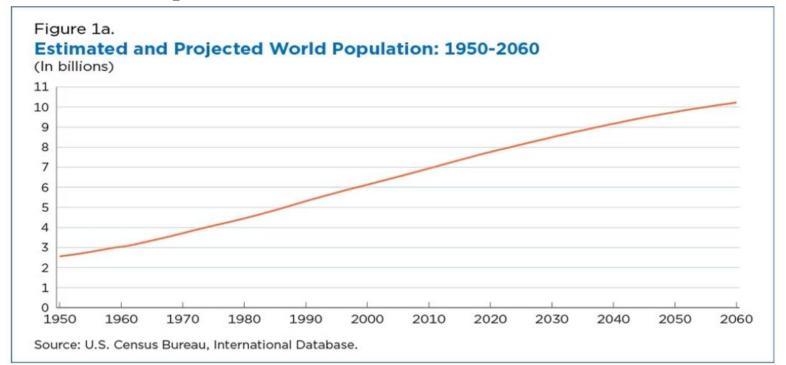


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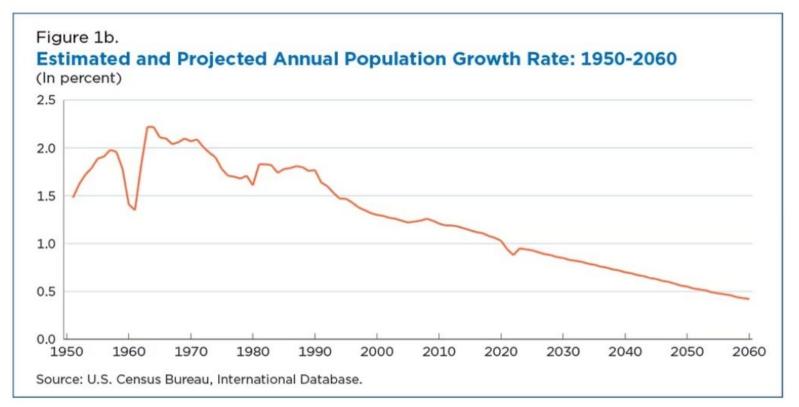


### The world's population is projected to triple over 110 years from 1950 to 2060



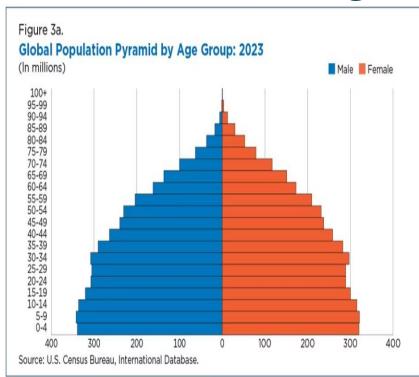


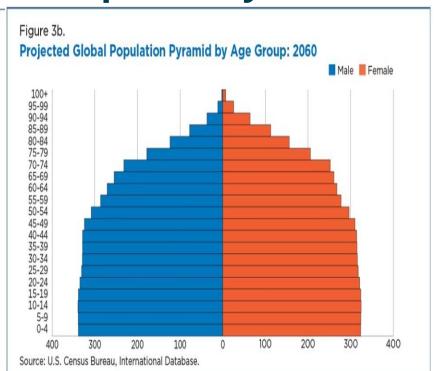
#### However, the rate of growth is rapidly decelerating





### The world's population will age due to decreasing birth rates and longer life expectancy







#### Three factors drive population change:



**Births** 



**Deaths** 



**Migration** 





### As societies develop economically, views on children change and births tend to fall

- In agrarian economies, children can be viewed as capital goods
  - children are a financially beneficial source of labor that contributes to family income
- In modern industrial/post-industrial economies, children can be viewed as consumption goods
  - children are not financial contributors and must be enjoyed for their own sakes
  - children may require large investments in education to achieve independence





## Life expectancy increased during the 20<sup>th</sup> Century leading an aging population

- Economic development
  - Better nutrition and housing
- Public health measures
  - Clean drinking water and wastewater treatment
- Medical advancements
  - Antibiotics, vaccines, and other medical technologies





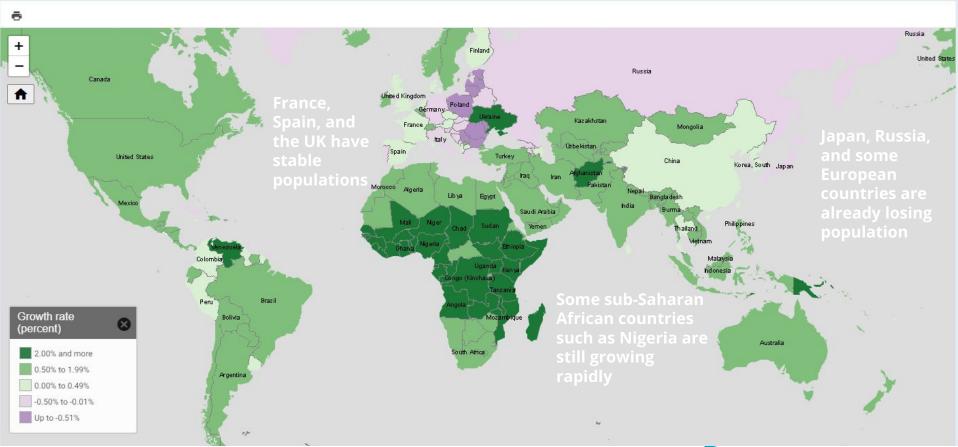
### Lack of unifying understanding of the role of international migration

- **Economic perspective** a country should admit migrants until the marginal migrant makes a negative contribution to the national treasury
- Cultural perspective migrants do not possess the same cultural heritage as native born
- The UN's Universal Declaration of Human Rights, Article 13, states that a person has a right to leave a country but is silent on a right to enter another country









#### Japan - shrinking population

- low births: 1.4 births per woman
- low immigration: 2.0% foreign born



Fewer people in younger cohorts



#### France - stable population

- moderate births: 1.9 births per woman
- moderate immigration: 12.8% foreign born



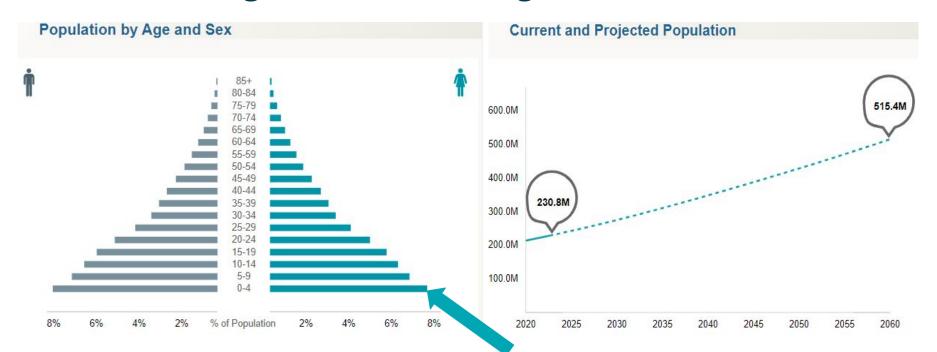
Source: U.S. Census Bureau, International Data Base birth rate 2023, foreign born share 2019

Balanced younger and older cohorts



#### Nigeria - growing rapidly

- high births: 4.6 births per woman
- low immigration: 0.6% foreign born



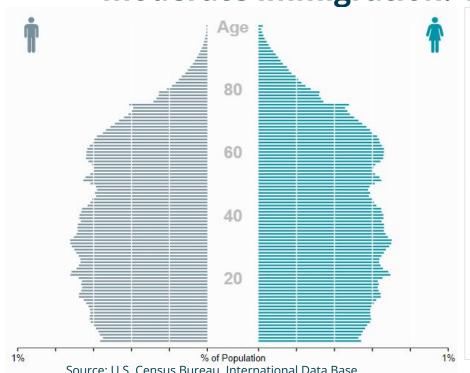
Source: U.S. Census Bureau, International Data Base birth rate 2023, foreign born share 2019

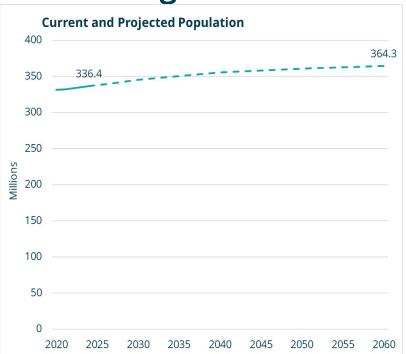
More people in younger cohorts



#### **United States - growing slowly**

- low births: 1.7 births per woman
- moderate immigration: 13.8% foreign born





Source: U.S. Census Bureau, International Data Base birth rate 2023, foreign born share 2022 American Community Survey



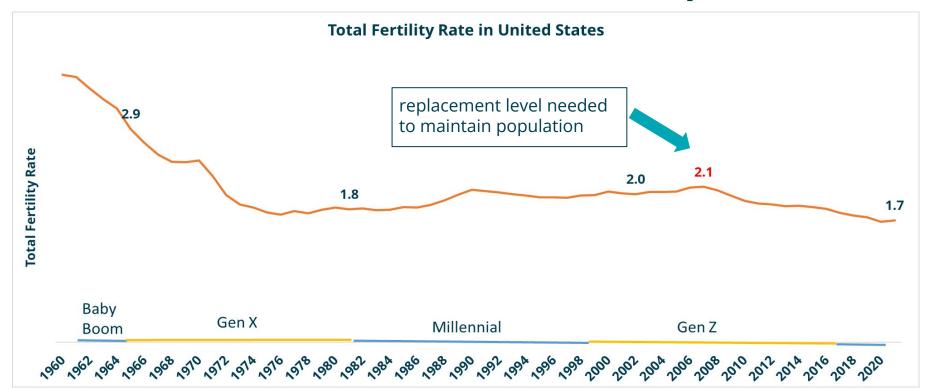
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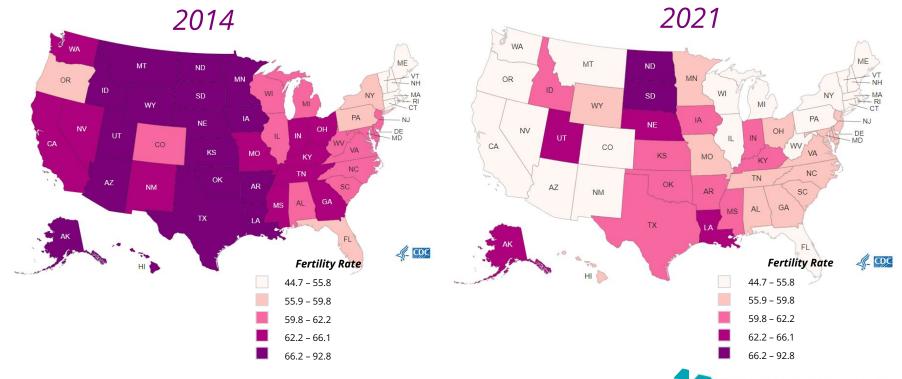


### Total fertility rates in the United States have declined since 2008, to 1.7 births per woman



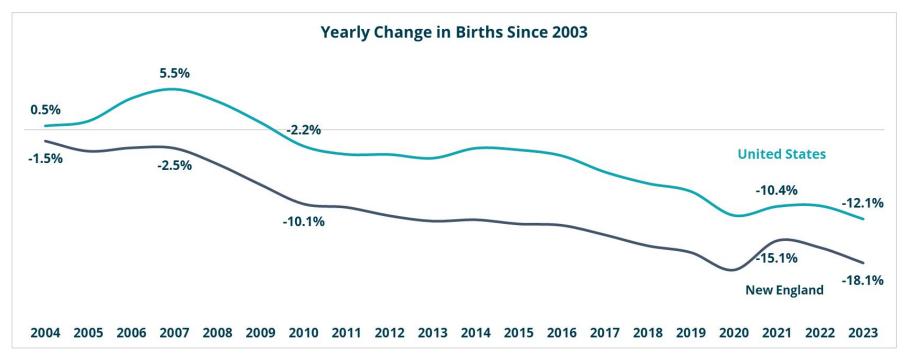


### Fertility rates (per 1000 women aged 15-44) have fallen across the country, and are lowest in New England





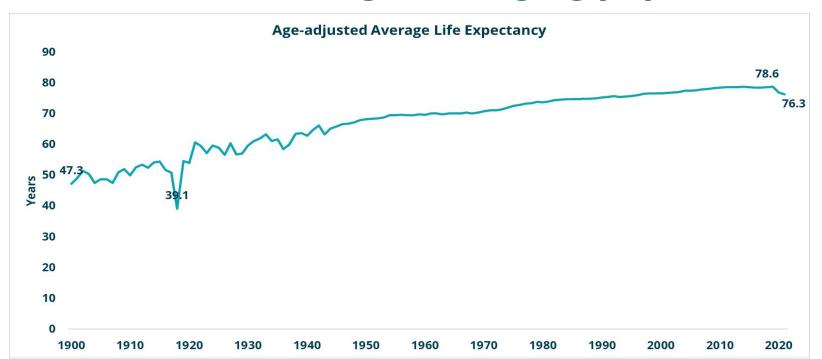
## Birth rates for women of childbearing age have been declining nationally and regionally







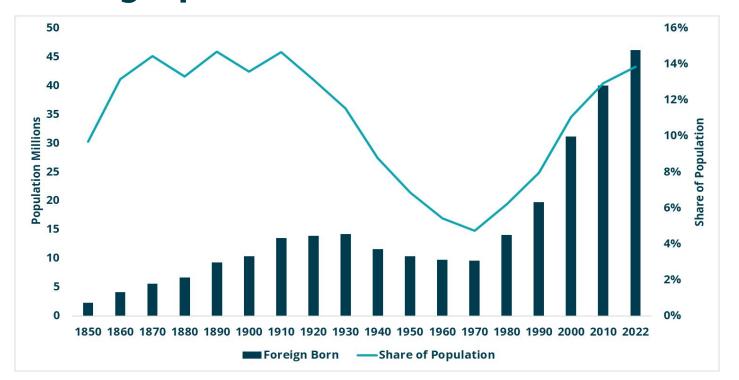
## Over the last century, life expectancy greatly increased, leading to an aging population





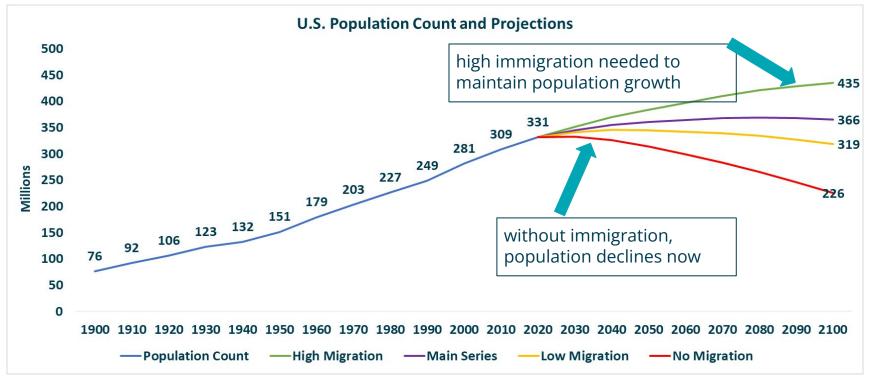


### Immigration drove U.S. population growth during a period of low birth rates since 1970





#### Without high levels of immigration, the U.S. population likely declines due to lower birth rates



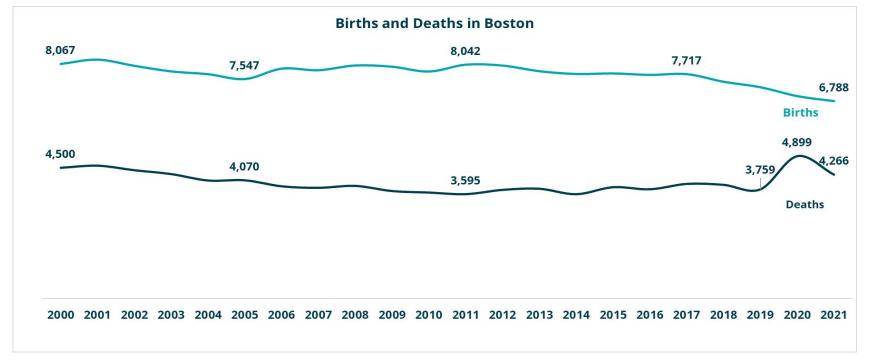
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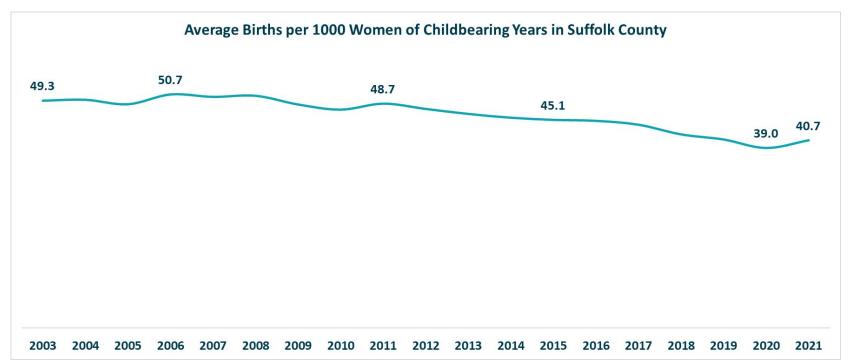
# Boston births have been declining and deaths have been rising since 2011 - before the pandemic effect in 2020-2021







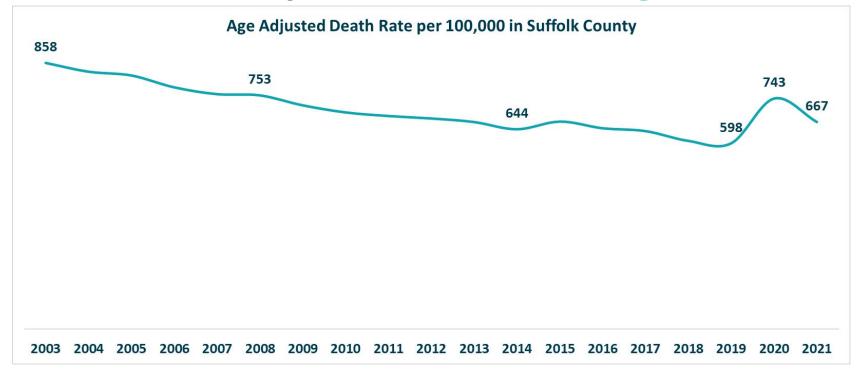
## The birth rate for women of childbearing age has been declining in Suffolk County since 2003





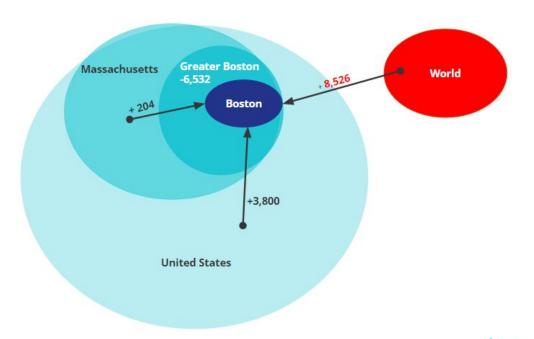


## Until COVID-19, the age-adjusted death rate in Suffolk County had been declining



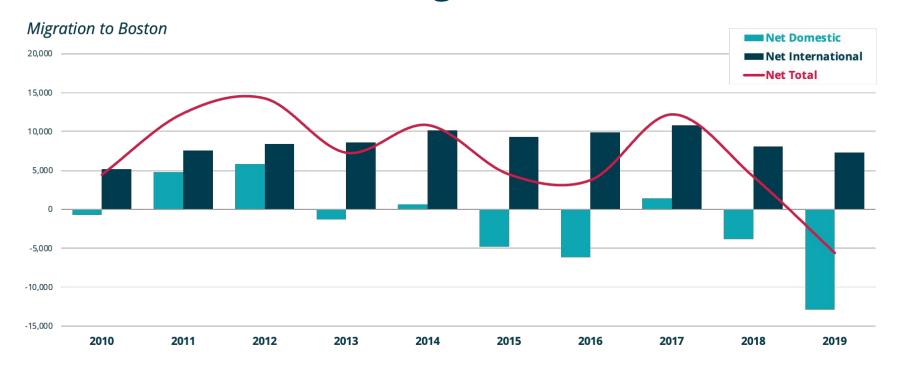


### Boston has seen net positive international migration but net negative regional migration



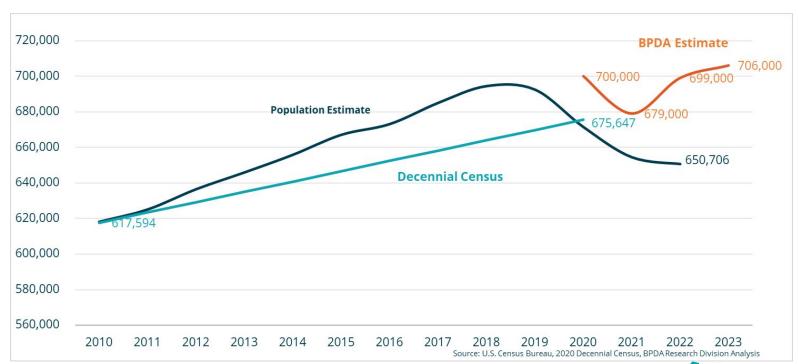


### Recent net migration to Boston peaked in 2012 at ~14,000 before falling to -5,590 in 2019





# Boston's population was undercounted in the 2020 Census, then fell during the pandemic but rebounded by 2022 - a recovery the Census estimates have not yet captured



2023 Census population estimate comes out in May



# As these population trends hit 20 year olds, these demographic trends may disproportionately influence Boston's population





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### Global and national population trends are important to Boston's future

- Births are in decline in most of the countries of the world, especially in more economically developed countries
- Life expectancy appears to have peaked
- Global population growth peaked in the 1960s and slowing population growth may continue
- The United States population may start declining over the next 50 years
- These trends can shape Boston's population growth mainly through domestic and international migration



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#### **Revised Boston Population Projections**

- The most recent BPDA population projections used the 2017 vintage U.S. projected population
  - The newer 2022 vintage with 13% fewer 20-to-29 year olds in the United States in 2050 will be used to revise the BPDA projections

 We are updating these U.S. data and Boston's migration rates to revise Boston 2025-2050 population projections by age cohort. Presentation on Friday, April 5th

