

Australian Population Overview

Region

All

1996

2016

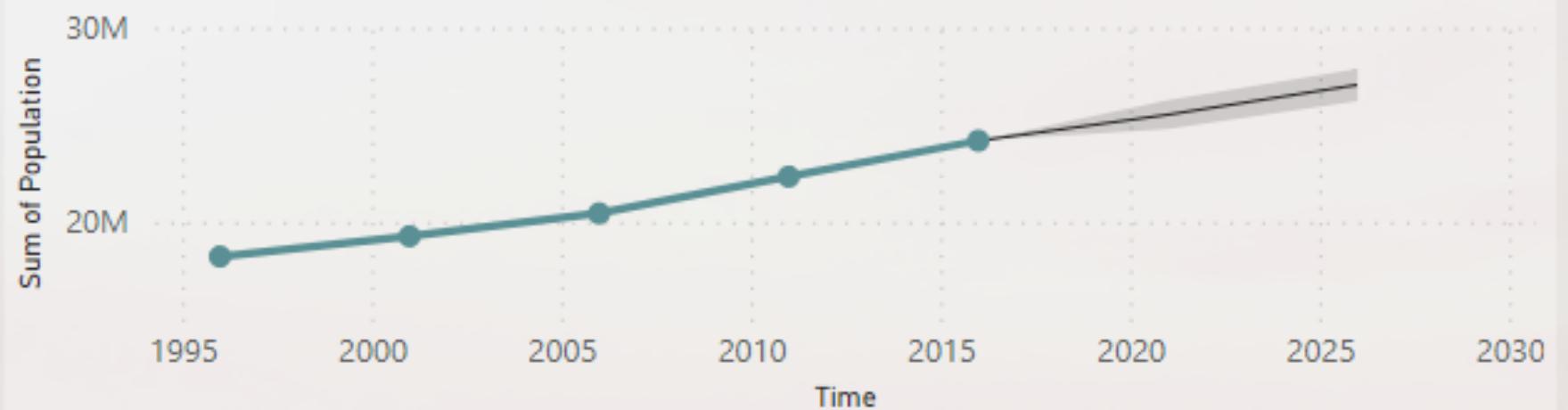
← Reset

Australian Capital Territory

Population
104M

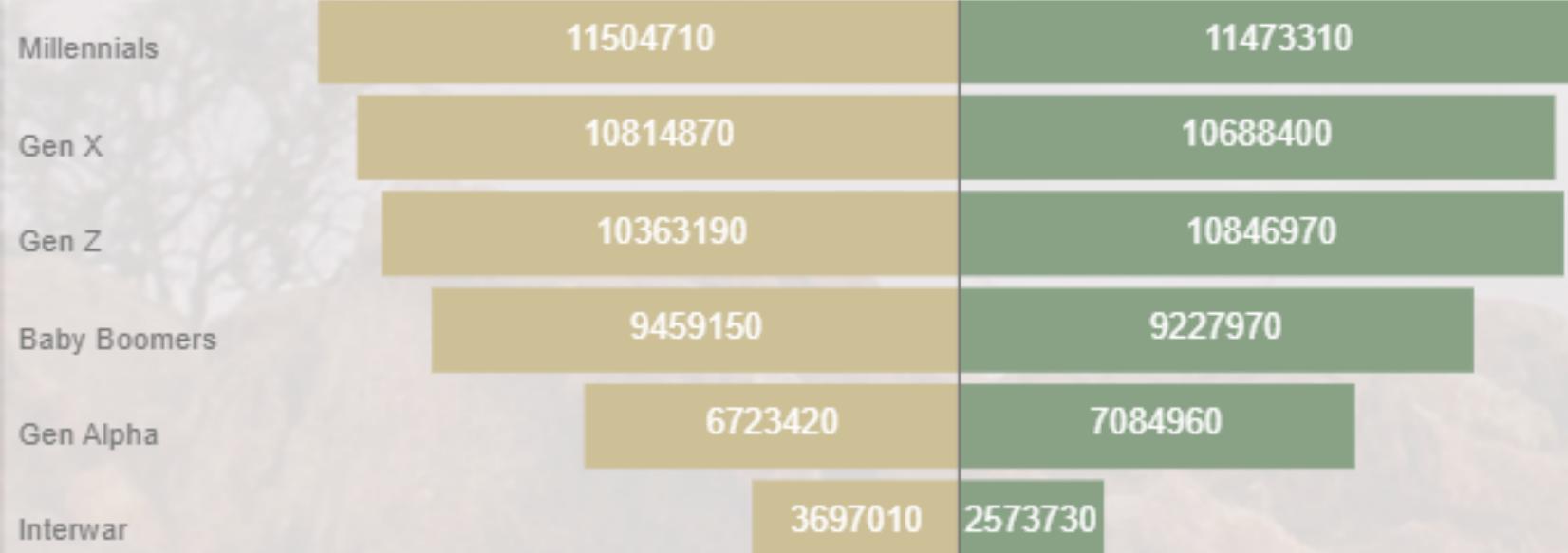
Accounts for
100%

Population by Time and 10 years forecasting

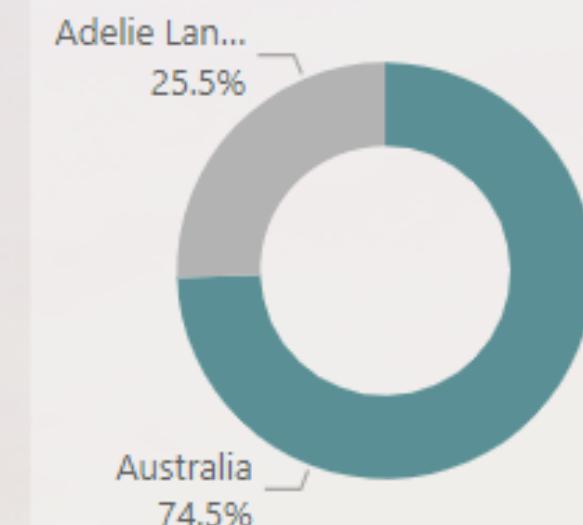


Population by Generation and Sex

Females Males

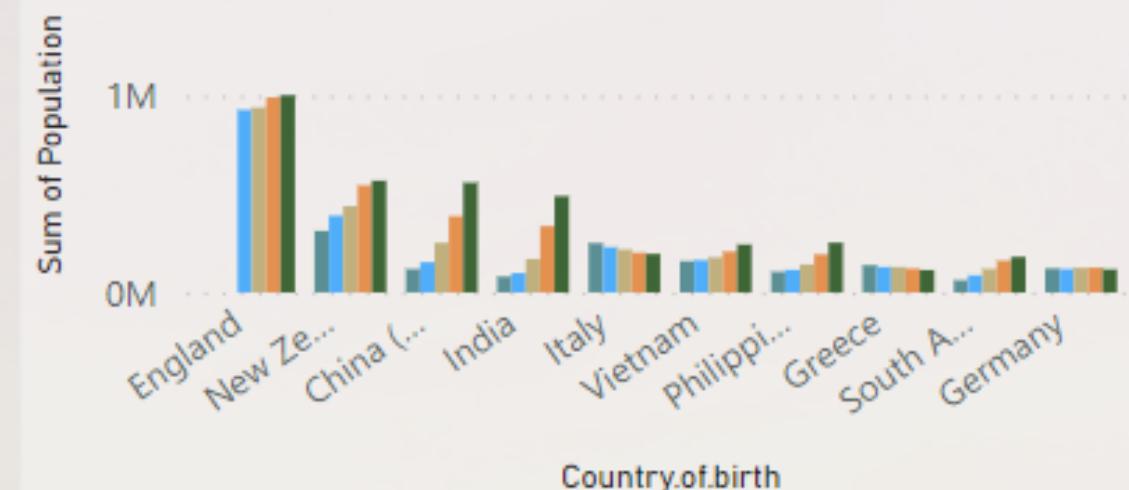


Australian-born vs Oversea-born

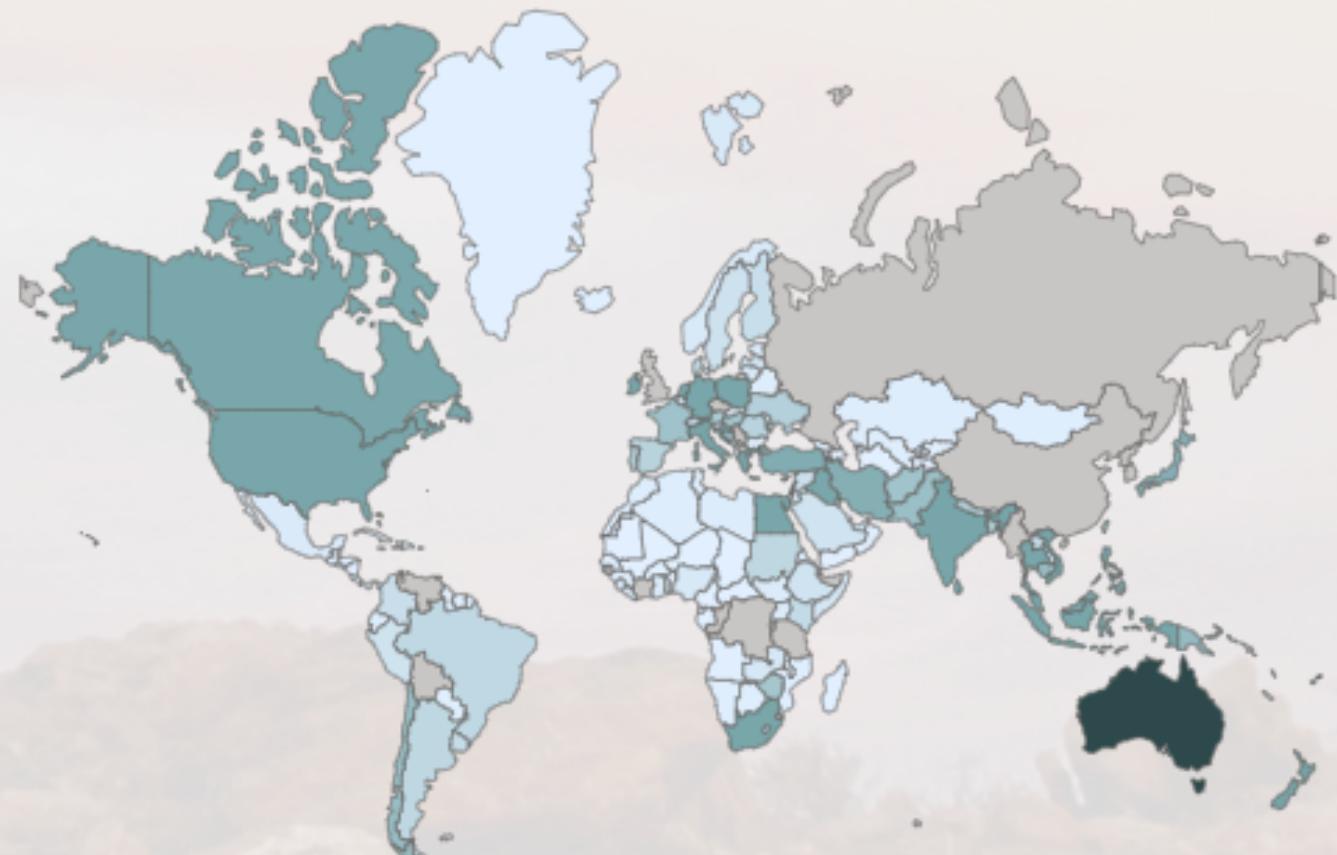


Top 10 Country of Birth by Population over time

Time 1996 2001 2006 2011 2016

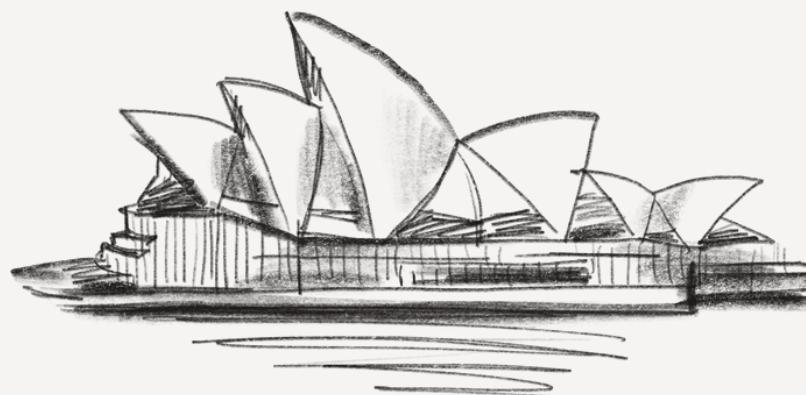


Which country has the most oversea residents in Australia



Australian Population 1996-2016

Demographics



Exploratory Data Analysis

The process was done mainly in Jupyter Notebook using Python, which can be reviewed in the attached file named Exploratory Data Analysis.

Overall, the data is fairly clean and not much changes are needed to be made for the purpose of the report. The data preprocessing steps include:

1. Change the data format
2. Group Age column into 6 generation types
(Gen Alpha (0-9), Gen Z (10-24), Millennials (25-39), Gen X (40-54), Baby Boomers (55-74), Interwar (75 and over))

Overview

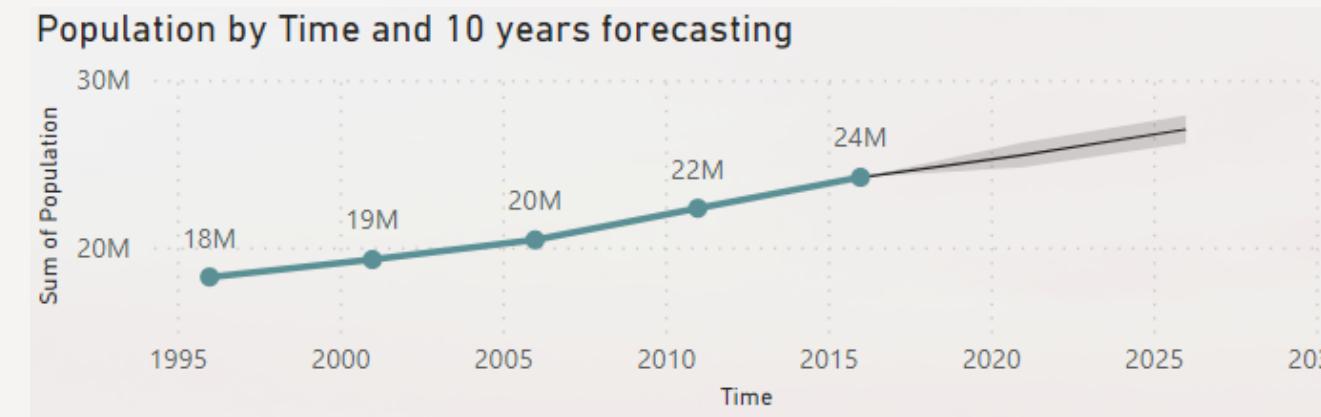
From 1996 to 2016, the population of Australia increased by

6 Million

Annual Growth

1.12%

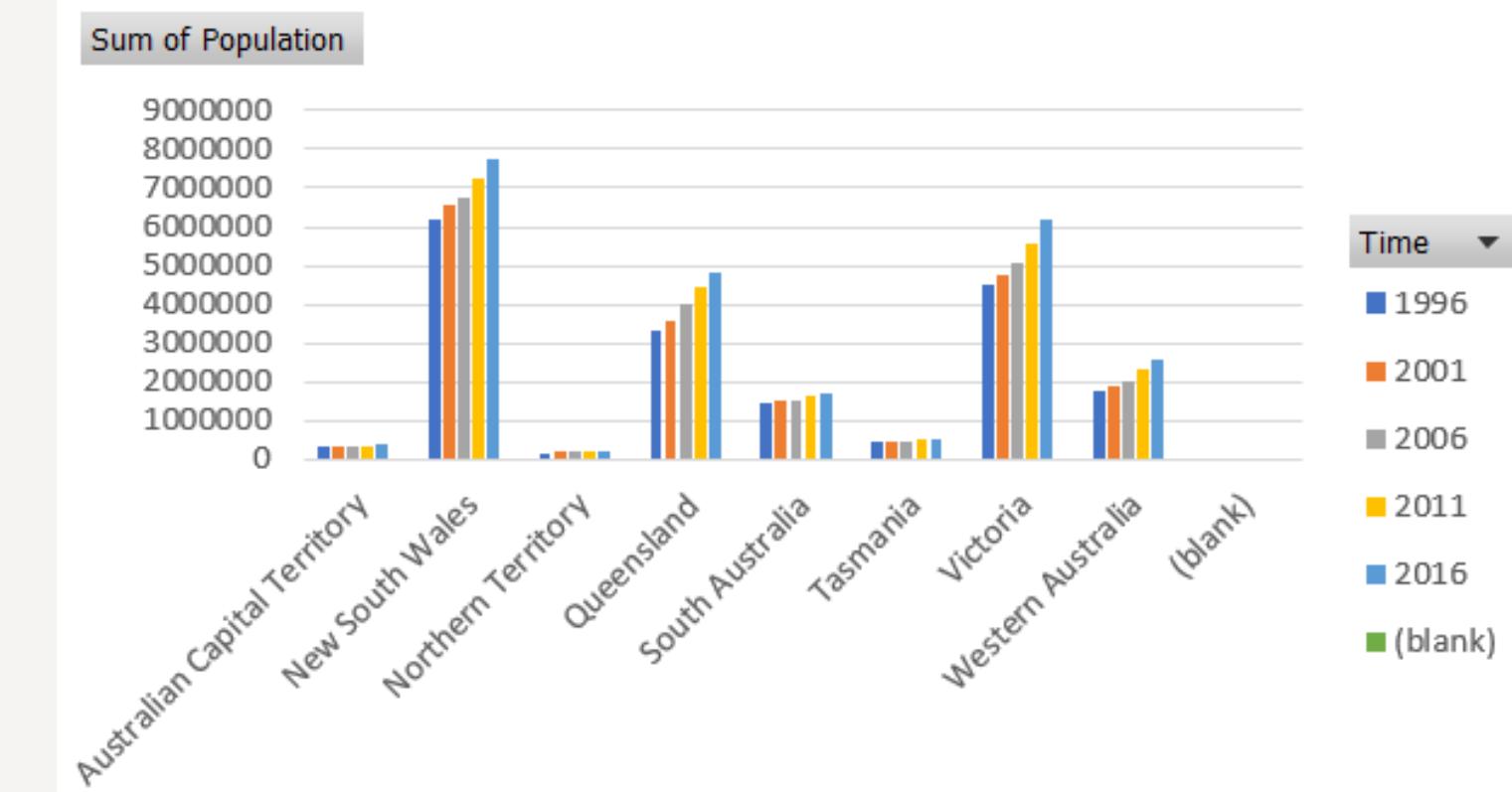
Trend: The country is expected to reach a population of 27 million in 2026 by natural increase, immigration and economic opportunities



Region

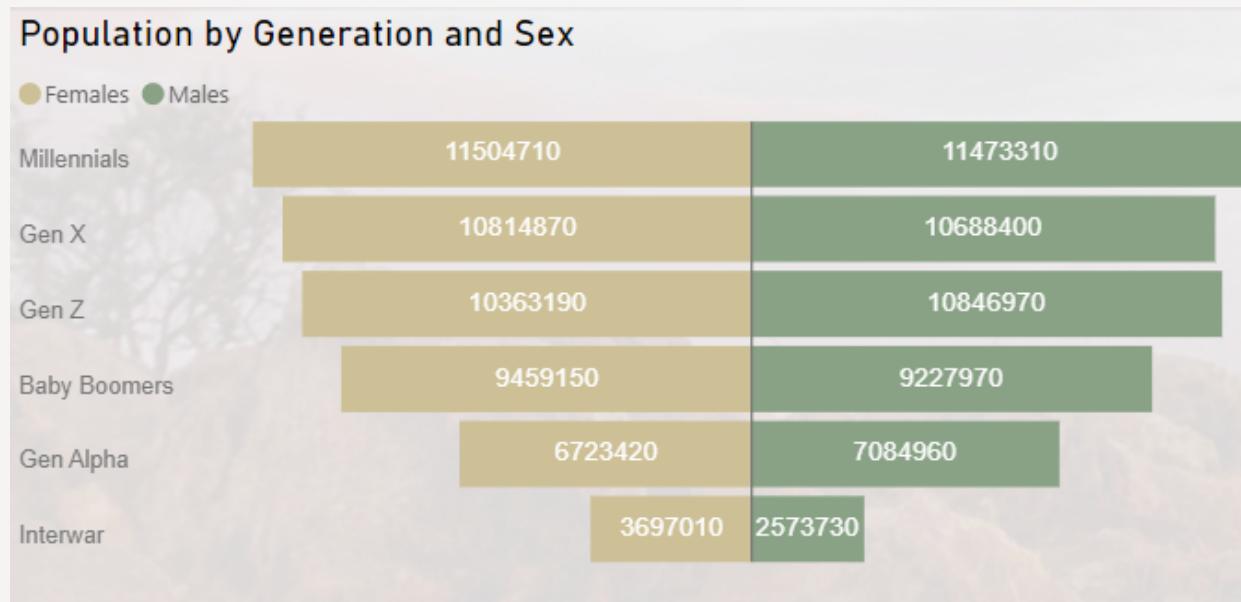
New South Wales and Victoria accounted for **58%** of the whole population

However, **Queensland** and **Western Australia** have the highest growth rates of **47%** and **44%** respectively over the period.



Sex ratio

Australia had a moderately balanced gender distribution in population during the period.



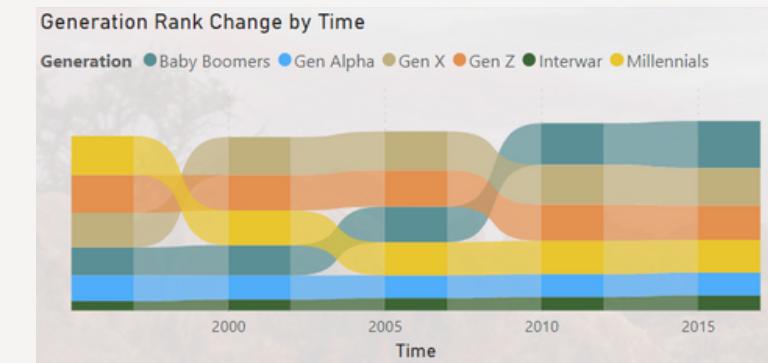
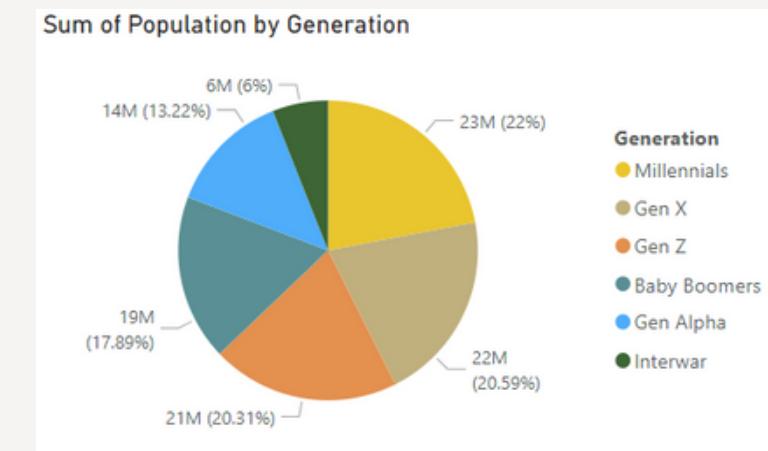
Trend: The gender ratio is expected to remain stable in the near future

Age - Generation

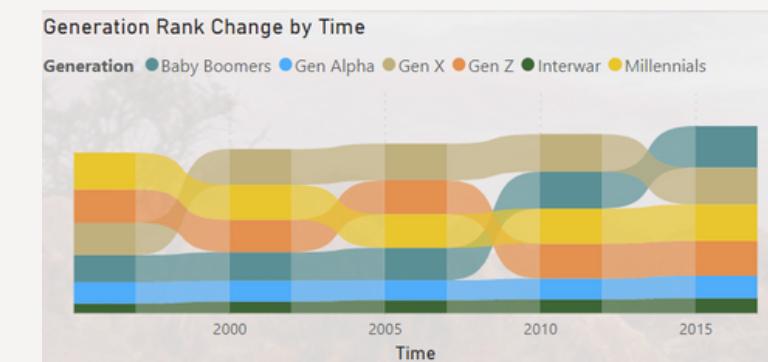
Over 20 years, most regions in Australia had **Millennials** as its largest age group.

In the last 15 years of the period, **Tasmania** and **South Australia** witnessed a rapid increase in the number of **Gen X** and **Baby Boomers**.

Trend: In the next periods, majority of the population is still within working-age group. The elderly population in Australia is expected to increase rapidly.



Tasmania

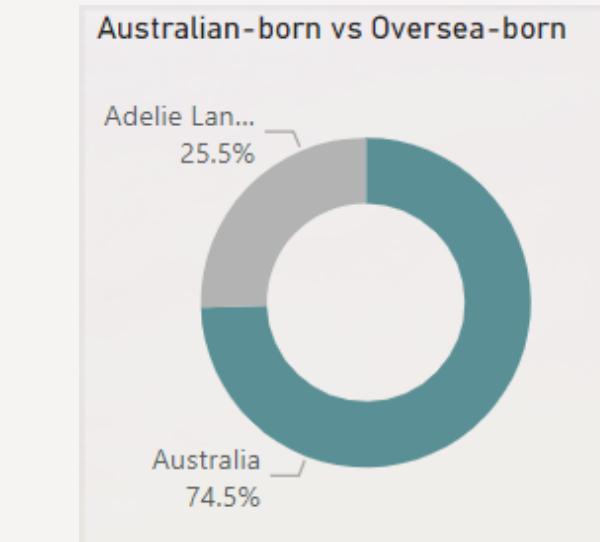


South Australia

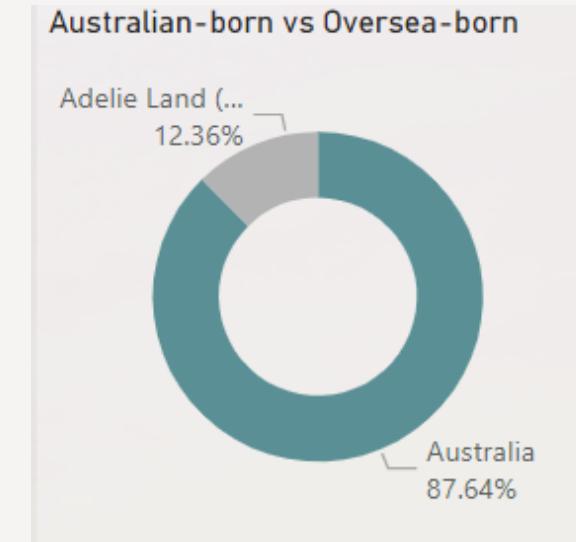
Country of Birth

As of 2016, 25.5% of Australia's population were born oversea.

Tasmania had the least oversea-born population (12.36%).



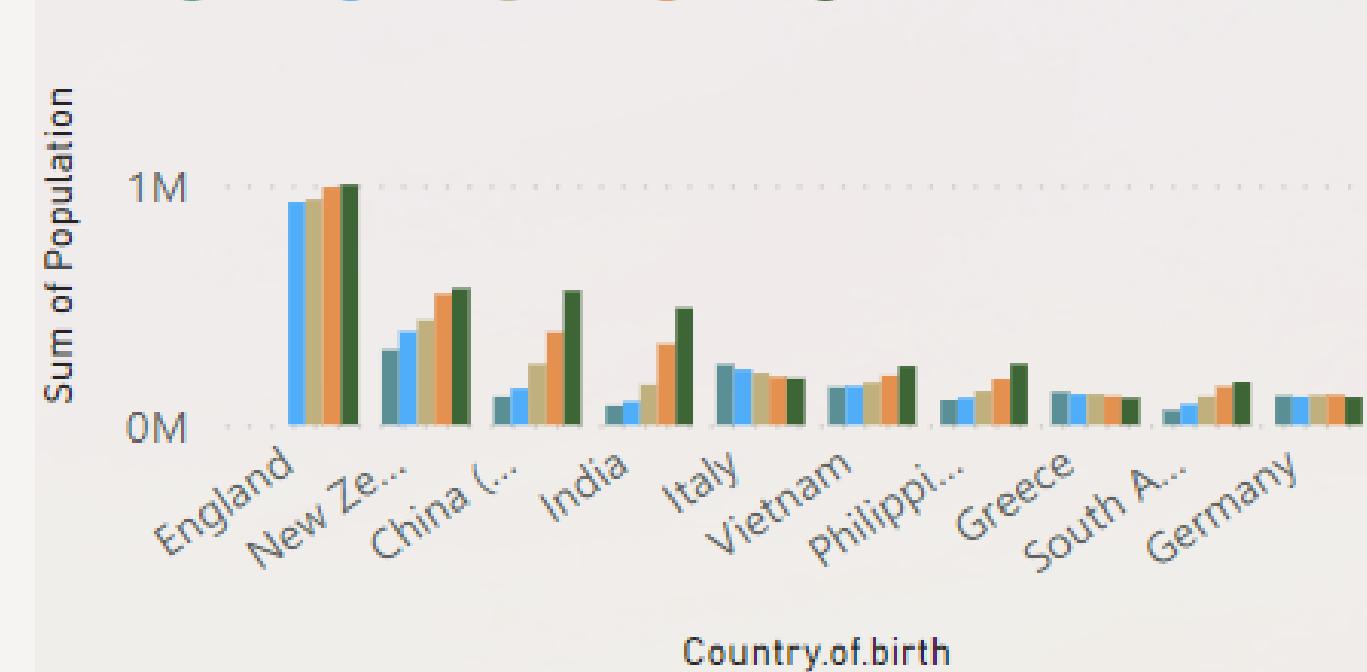
Australia



Tasmania

Top 10 Country of Birth by Population over time

Time ● 1996 ● 2001 ● 2006 ● 2011 ● 2016



Among countries whose people immigrate to Australia, England was the largest group in most regions, except for New Zealand in Queensland.

However, Indian-born and Chinese-born had the largest increase rate over the period. These 2 groups stayed the most in New South Wales and Victoria.

Recommendation

1. More features (eg. natural death, suburbs) should be added to see what influences the change in Australia's population and demographics over the period.
2. With more features, Predictive Analysis can be done in Excel or Python to predict the change in population over next periods.
3. The knowledge from this research can be used in various domains and industries, such as: FnB and Retail (customer preference), Education

