

## Background

A major Australian bank has recently observed a significant increase in customer churn across multiple business lines (retail, business and institutional banking). A surprising number of customers, both old and new, shift their business to competitors. In addition to this, there has been noticeable reduction in the acquisition of new customers. Consequently, the bank is concerned about the potential implications this might have on its financial position, risk profile and overall strategy.

#### Snapshot of recent trends in the **Australian Banking Industry**

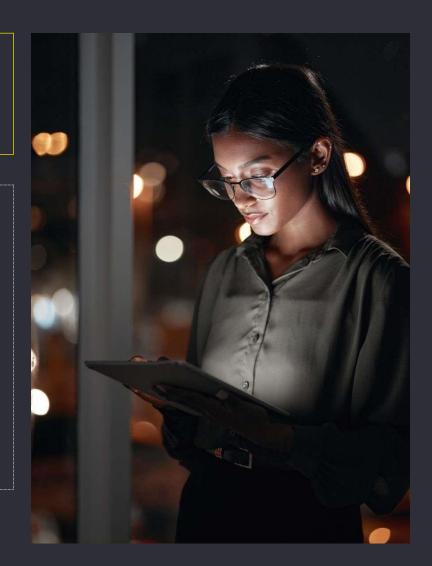
Small rise in earlystage delinguencies suggest that interest rate rises and the erosion of saving buffers are starting to impact customers<sup>1</sup>

Major banks have reported strong full year results despite decreasing net interest margin and high-cost pressures<sup>2</sup>

plans to improve and drive revenue<sup>3</sup>

Banks are executing on digital transformation customer experience







#### Question

In your role as a banking actuary, you have been tasked with understanding the observed trends and proposing a strategy to reverse or manage the high rate of customer churn.

The client is interested in understanding the potential implications customer churn has on the bank's financial position, risk profile and strategy. For your analysis, the client asked you to select one of the business lines (retail, business banking or institutional banking) and focus on it when answering the relevant questions.



# Specifically, your client requests the following:

Address how customer churn may impact the following risk types:

- Credit risk
- Market risk
- Liquidity risk
- Outline the impact that current and future market conditions may have on the customer churn rate
- How could actuarial tools and techniques, such as predictive modelling, be utilised by the bank to better understand the cause of the customer churn and to predict future trends?
- Design and propose a solution or an initiative that the bank could undertake to reverse the trend of customer churn. Using any major Australian bank<sup>1</sup> as an example, quantify and discuss the impact of the proposed solution on the financial position of the bank<sup>2</sup>.

<sup>&</sup>lt;sup>2</sup> This may include the quantification of revenue, expenses, profit, market share, impact on capital, etc.



<sup>&</sup>lt;sup>1</sup> You may refer to financial statements of major Australian banks to assess this.

### References



#### You may find the following references useful:

RBA Economic Conditions

An introduction to churr

RBA Financial Stability
Review - October 2023

Analytics on banking customer relationships

Major Australian banks

Example of risk types considered by a big 4 AU bank

Please feel free to use additional sources to inform your response and appropriately reference any relevant sources.



### Submission instructions



Teams are required to submit their response as a slide deck (in .ppt, .pptx or .pdf format) for a 10 minute presentation and 5-10 minute Q&A.

#### **HOW TO SUBMIT**

- **1.** Email your response to
  - UNSW students: careers@asoc.unsw.edu.au
  - ► Macquarie students: <u>admin@mqassoc.com</u>
- 2. Attach the slides and projection model with the subject:
  - 2024 EY Joint Actuarial Case Competition [Team Name]
- 3. Include your team name and members in the body of your email.
- Deadline
   11:59 pm, 28th March 2024



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- Health and Human Services

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I chose to work for EY because of the positive experiences I had in the Career Compass Program and as a Vacationer. As a Vacationer, I enjoyed the opportunity to sample projects across the four actuarial teams within EY, which gave me exposure to a variety of projects EY is involved in and helped me to select the area I wanted to pursue. As both a Vacationer and a Graduate at EY, I enjoyed the opportunity to work collaboratively with other services lines. I developed both technical skills and soft skills such as project management and stakeholder management. Above all else, I enjoy working with the people at EY and have made many good friends during my time here!



Nicole Andrianopoulos Sydney

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