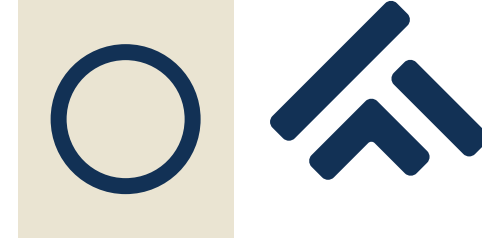


UNCOVERING RETENTION TRENDS ANALYSIS

- TRACKING USER RETENTION OVER TIME BASED
ON SEMESTER COHORTS

INTRODUCTION



The Looker is a leading e-commerce platform offering a wide selection of fashion, from the latest trends to timeless pieces, all at competitive prices. Serving customers worldwide.

The Looker provides reliable international shipping, Fast delivery, and a hassle-free order cancellation feature, ensuring a more convenient, secure, and satisfying shopping experience.



OVERVIEW



In the e-commerce industry, retaining customers is just as important — if not more important — than acquiring new ones. Cohort Retention Analysis is an effective way to understand customer behavior over time.

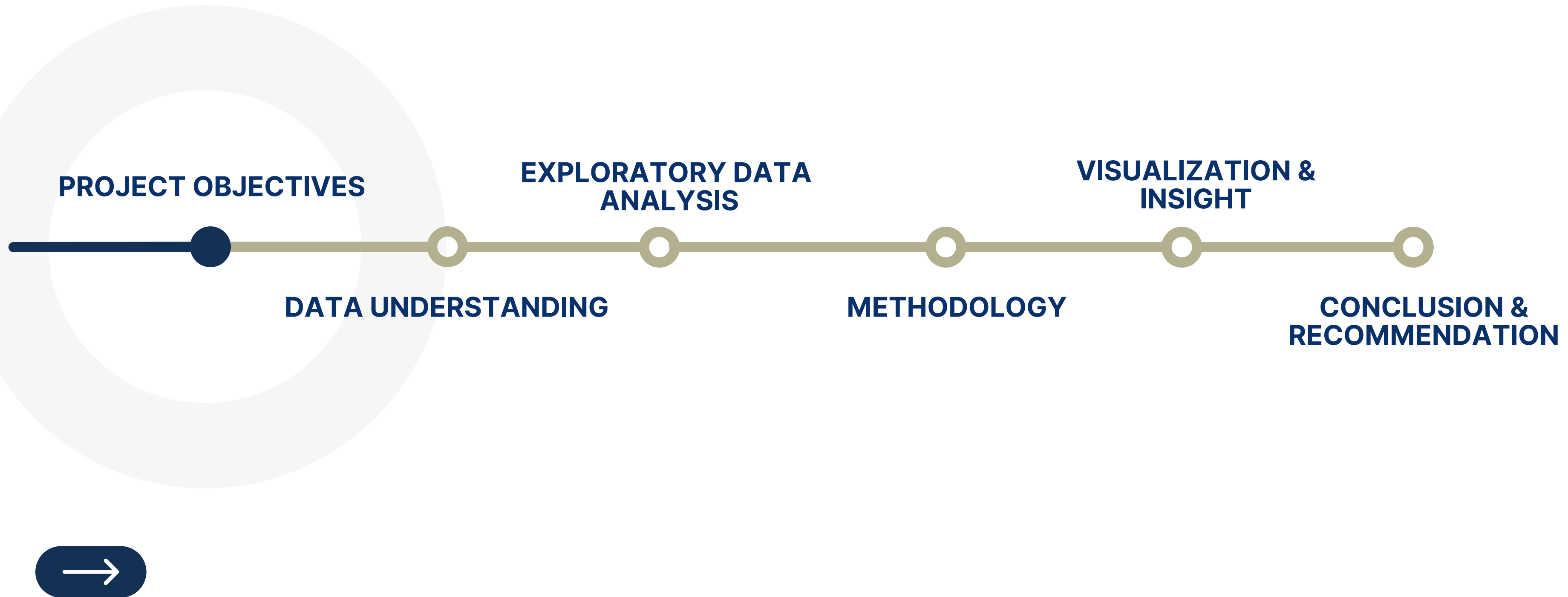
By grouping customers based on the time of their first purchase (cohorts), we can track how likely they are to return and make repeat purchases in subsequent periods.

STAKEHOLDERS

- Business Management Team: Defines strategic goals and ensures alignment with business objectives.
- Marketing Team: Uses insights to refine campaign strategies and improve customer engagement.



PROJECT OUTLINE



PROJECT OBJECTIVES

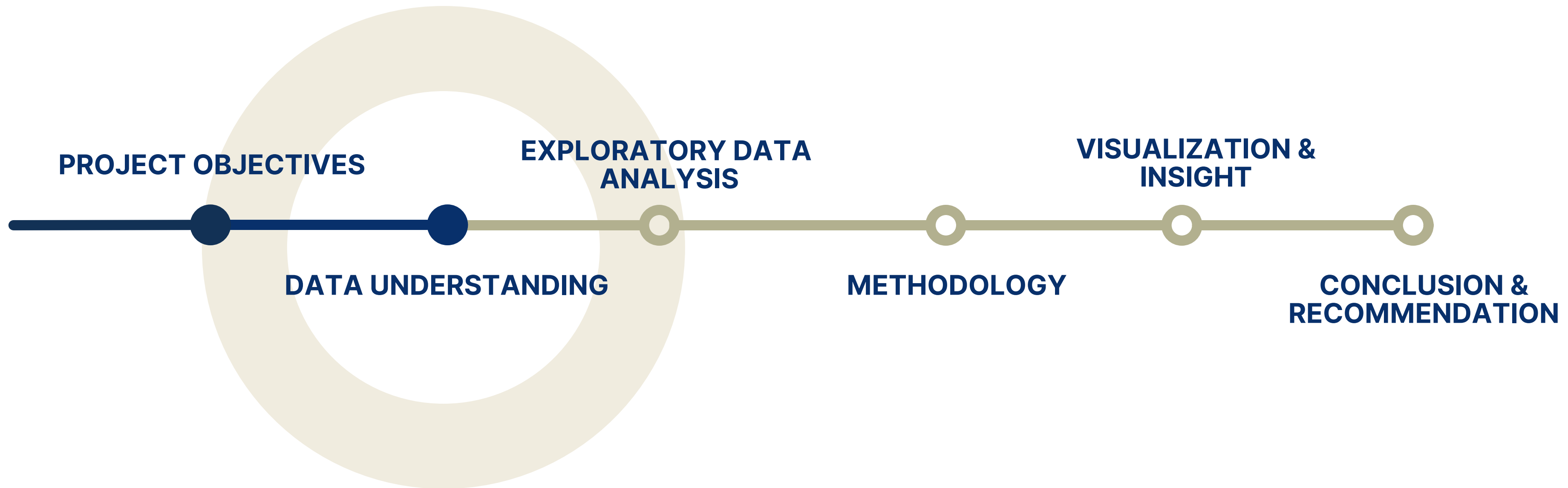
To analyze customer loyalty across cohorts to understand how buying behaviour evolves over time. By identifying trends in repeat purchases, we aim to uncover opportunities to improve customer retention, increase customer lifetime value (CLV), and reduce churn.

GOALS

- 01 **Understand customer retention and churn rates within each cohort period**
- 02 **Analyze sales trends based on orders across different cohort periods**
- 03 **Identify customer segments that tend to be more active and loyal**
- 04 **Develop more effective customer retention strategies based on insights from the cohort analysis**








PROJECT OUTLINE





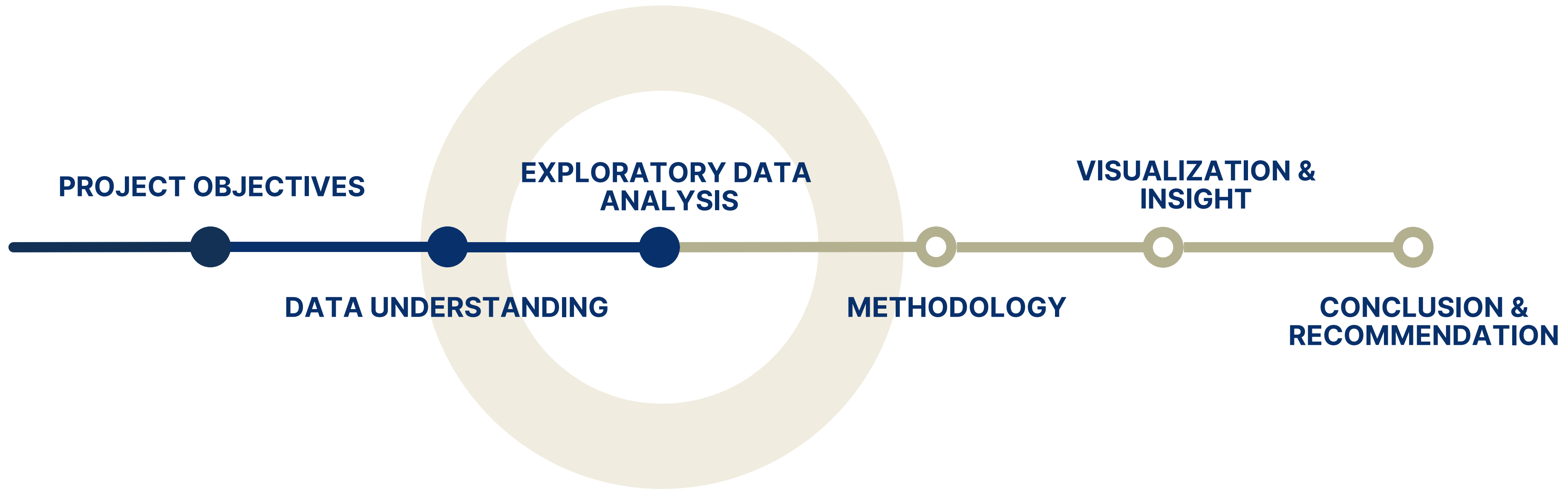
DATA UNDERSTANDING

Below is a description of each column in the dataset to support further analysis

No	Name of Columns	Description
1.	 User ID	Identifier for the user who placed the order
2.	 Order ID	Identifier for the associated order
3.	 Created at	Briefly elaborate on what you want to discuss
4.	 Status	Status of the order item
5.	 Country	Country where the user is located

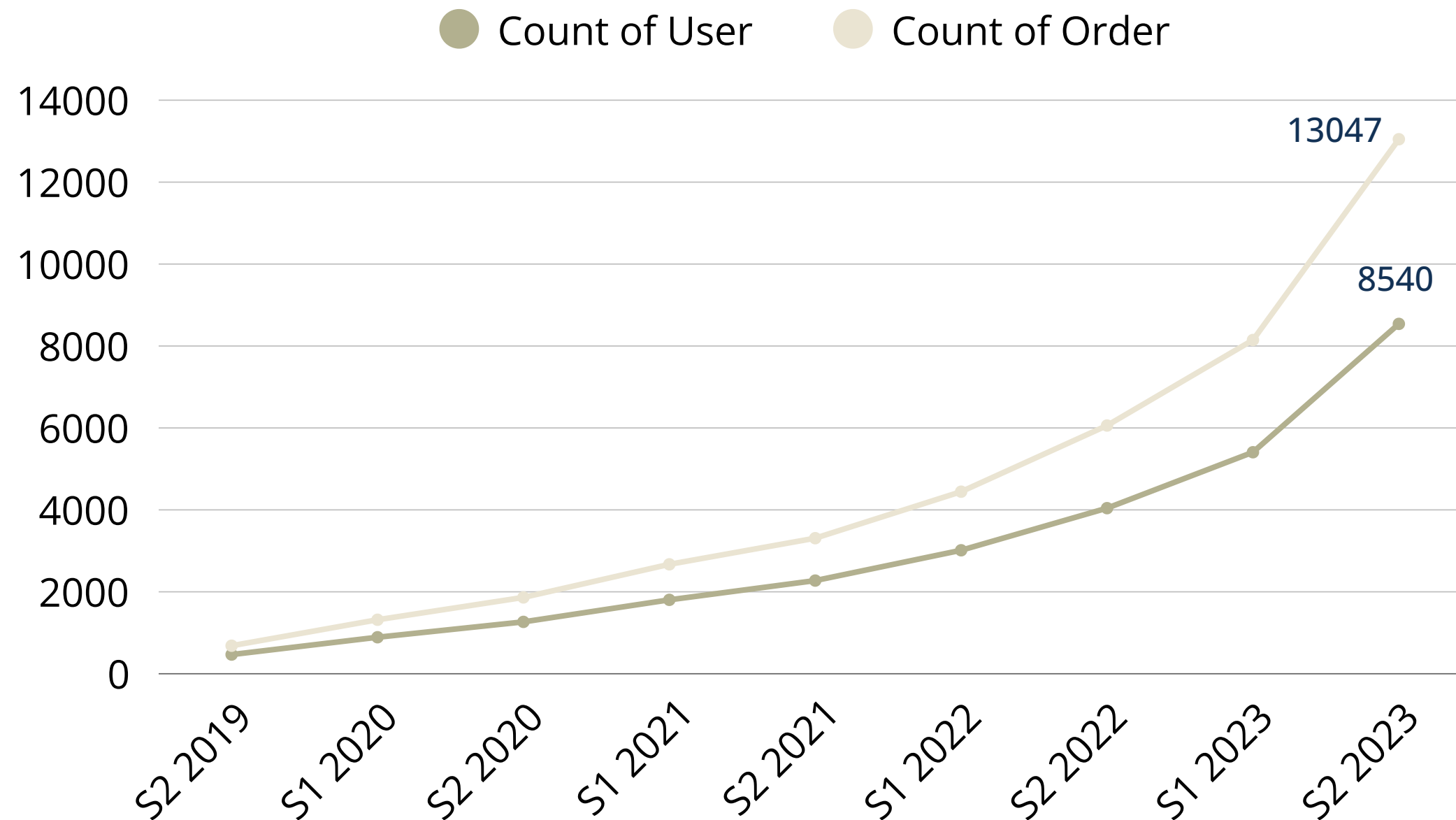


PROJECT OUTLINE



EXPLORATORY DATA ANALYSIS

TREND COUNT OF USER AND ORDER BY SEMESTER

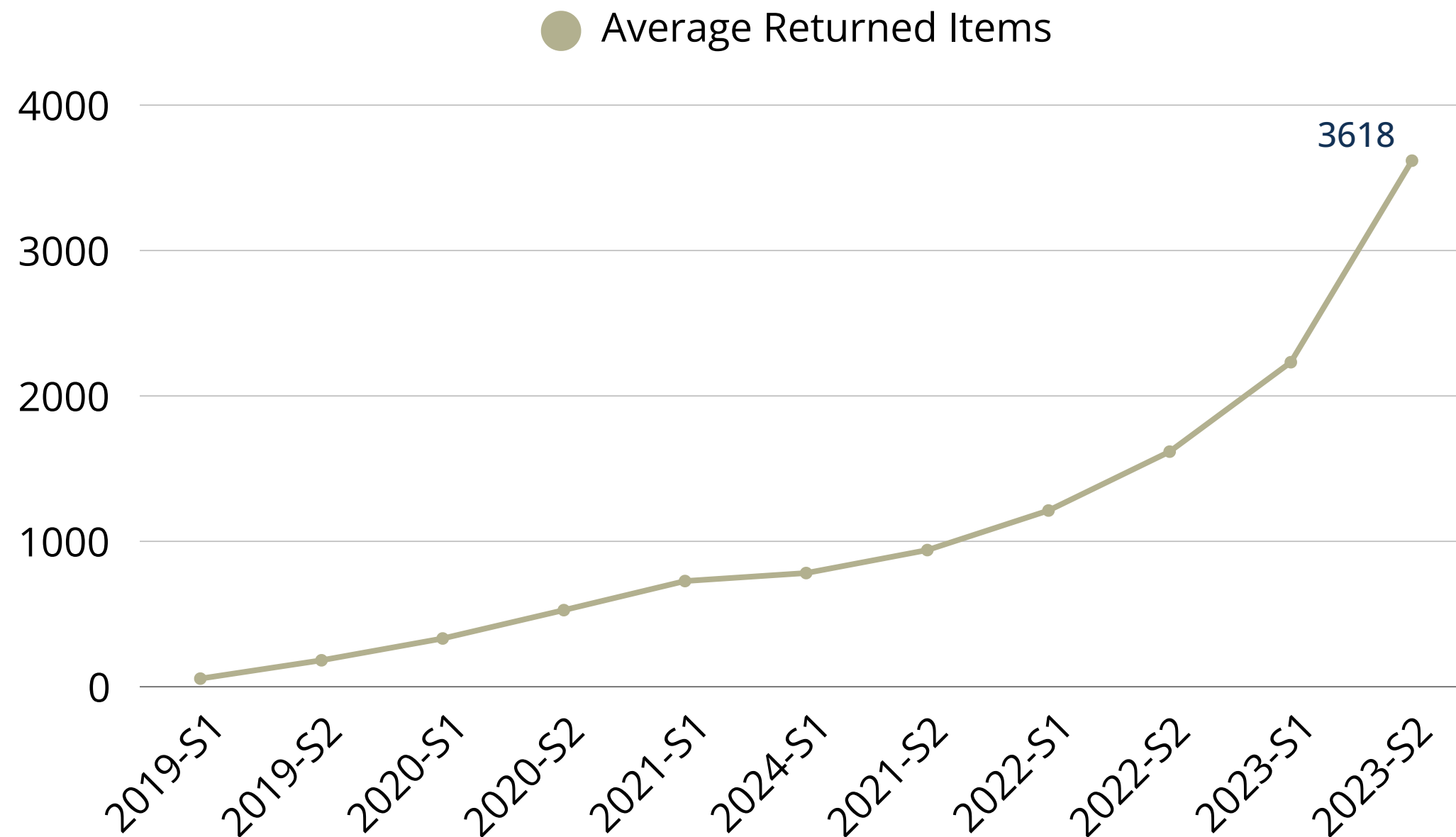


- There is an increasing trend in the number of users and orders each semester
- In contrast to the retention rate trend
- New users keep coming to place orders



EXPLORATORY DATA ANALYSIS

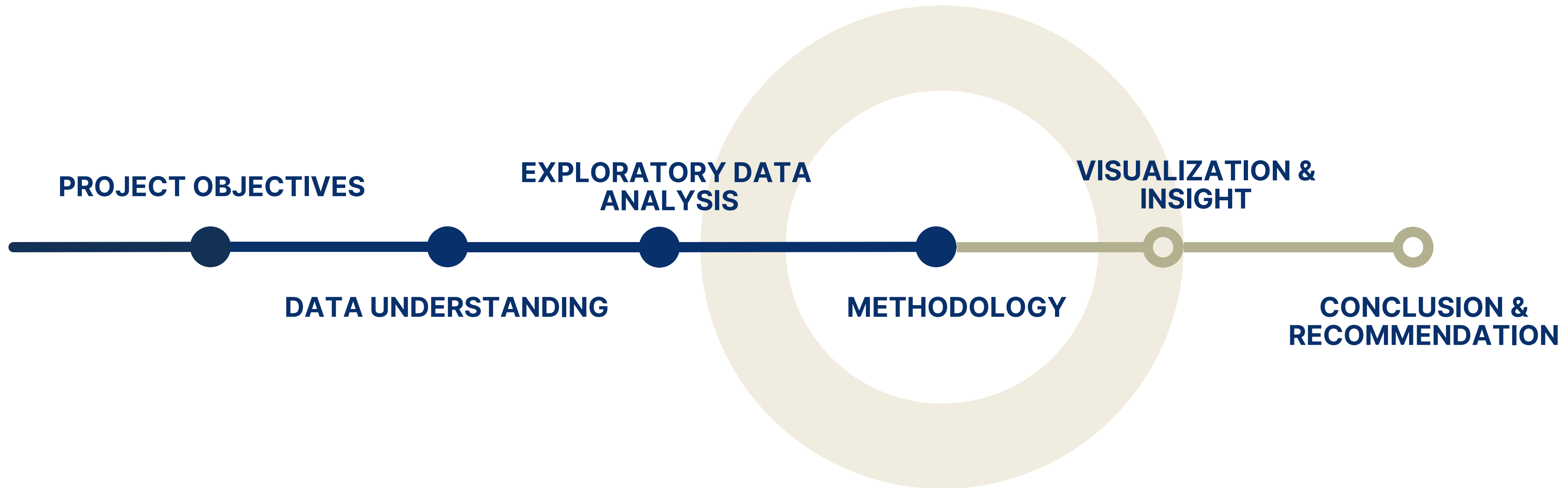
TREND OF AVERAGE RETURNED ITEMS



- The average number of returned items has consistently increased from 2019-S1 to 2023-S2.
- This rise appears exponential, especially after 2021-S2.



PROJECT OUTLINE



RETENTION COHORT ANALYSIS METHODOLOGY



Cohort Determination

Users are grouped based on the semester they were first active (cohort_smt), for example Semester 2 2019, Semester 1 2020, etc.

User Activity Tracking

Each user is tracked whether they remain active in subsequent semesters (current_smt), thus forming a time distance called semester_distance.

Count user calculation

For each semester cohort, the total number of users who were first active in that semester is calculated (cohort_smt = current_smt).

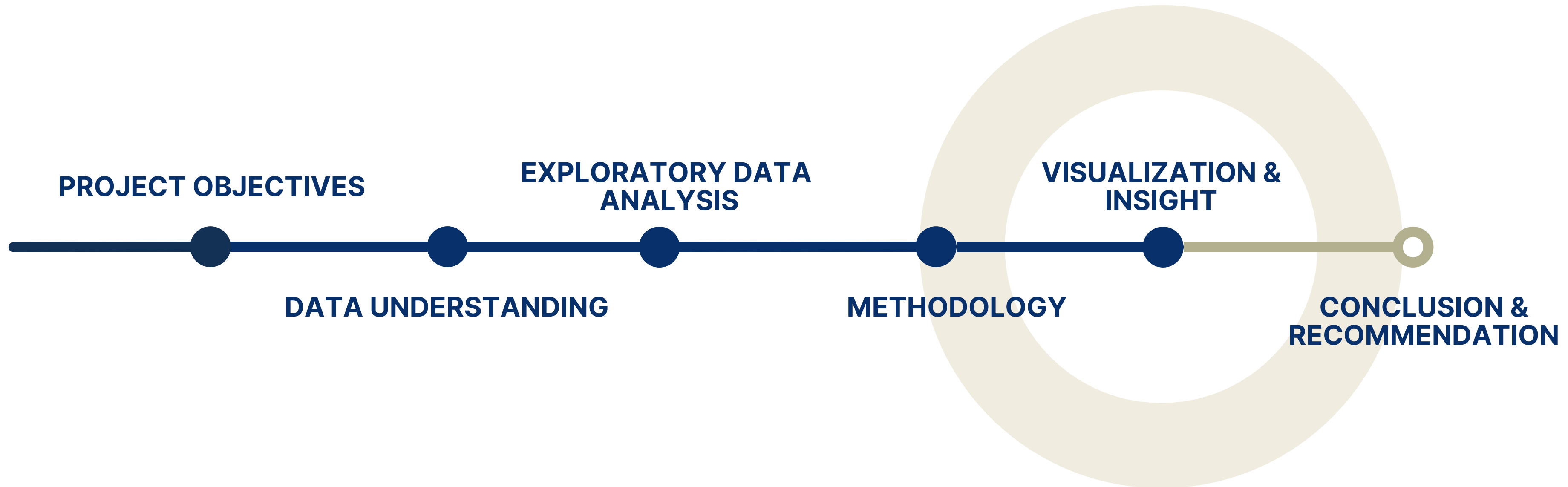
Retention Calculation

For each cohort, it is calculated how many users remain active in the next semester.

Visualization & Analysis

Retention results are visualized in the form of heatmaps or tables to identify trends in retention, loyalty, or churn in each cohort.

PROJECT OUTLINE



COHORT ANALYTICS

RETENTION RATE BY SEMESTER

Customer retention typically declines each semester.

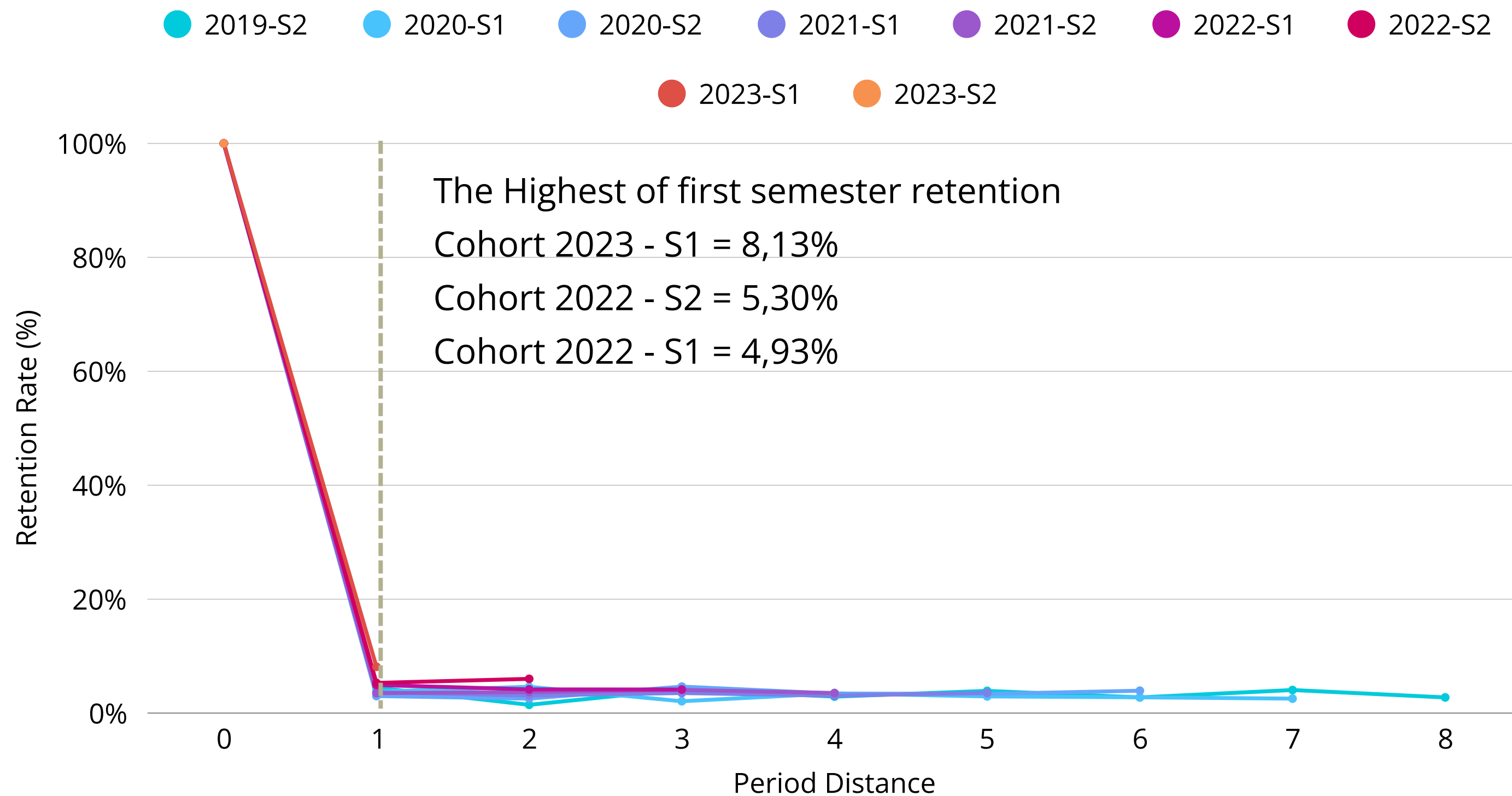
The company should examine potential changes in marketing or product strategies during these periods that may have impacted retention.

Cohort Semester	0	1	2	3	4	5	6	7	8
2019-S2	100%	4,48%	1,45%	4,19%	2,89%	3,90%	2,75%	4,05%	2,75%
2020-S1	100%	3,78%	4,62%	2,08%	3,47%	2,93%	2,77%	2,54%	
2020-S2	100%	2,99%	2,54%	4,65%	3,43%	3,37%	3,93%		
2021-S1	100%	3,67%	3,09%	3,52%	3,05%	3,56%			
2021-S2	100%	3,50%	3,69%	4,07%	3,53%				
2022-S1	100%	4,93%	4,16%	4,14%					
2022-S2	100%	5,30%	6,01%						
2023-S1	100%	8,13%							
2023-S2	100%								



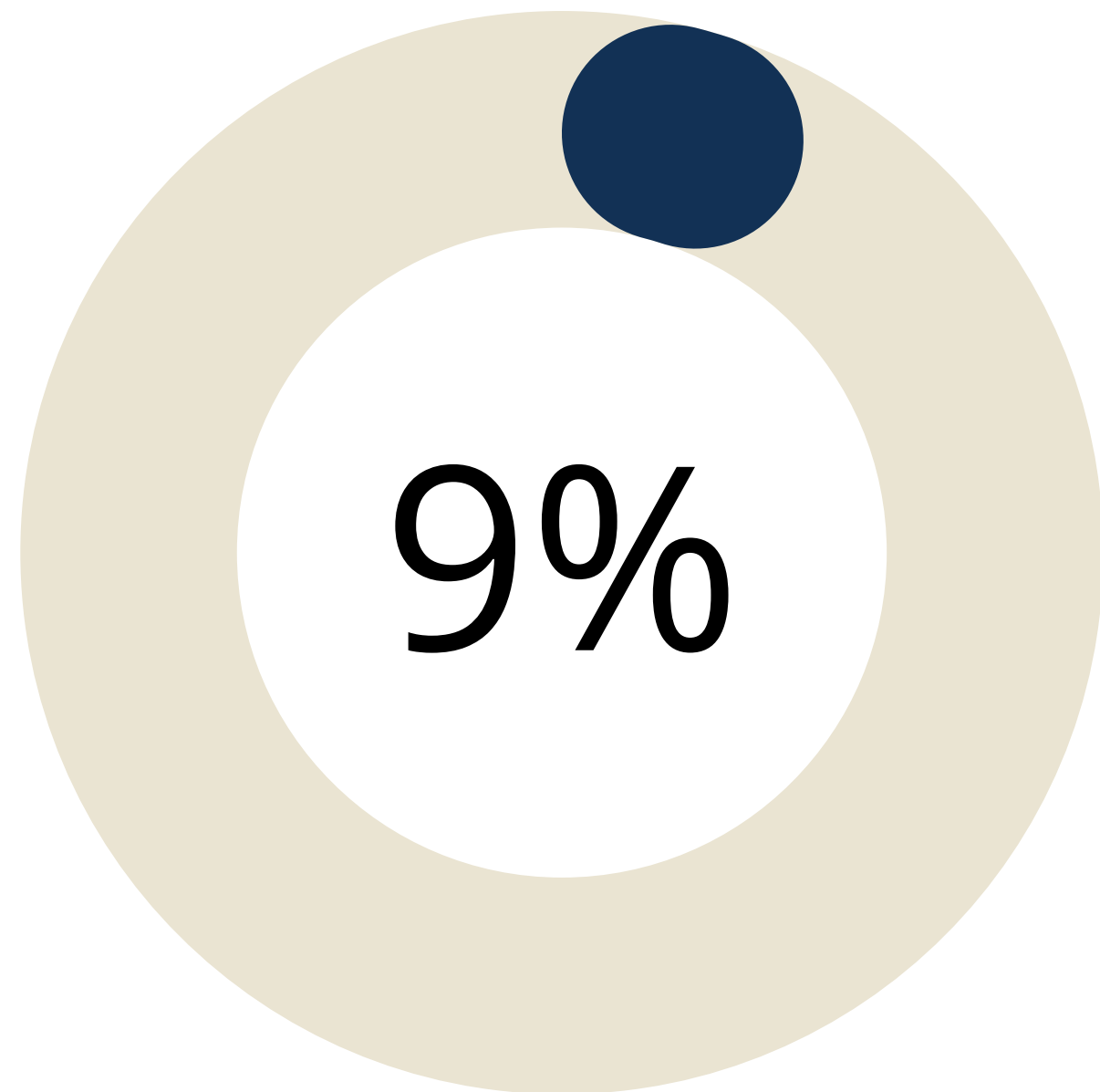
COHORT ANALYTICS

RETENTION TREND BY SEMESTER



STATISTIC

PERCENTAGE OF USERS REPEAT ORDER



The data shows a low level of customer loyalty. We are working to improve satisfaction and loyalty so that more customers continue to do business with us in the future.

9%

Looker E-Commerce has loyal users that still do transaction on the products (No churn)

91%

Looker E-Commerce lost its loyal users (Churn)



COHORT ANALYTICS

RETENTION RATE OF UNITED STATES

All three countries show retention drops by Semester 2, but the severity varies. This indicates a problem with long-term engagement, where customers are not staying beyond a few semesters.

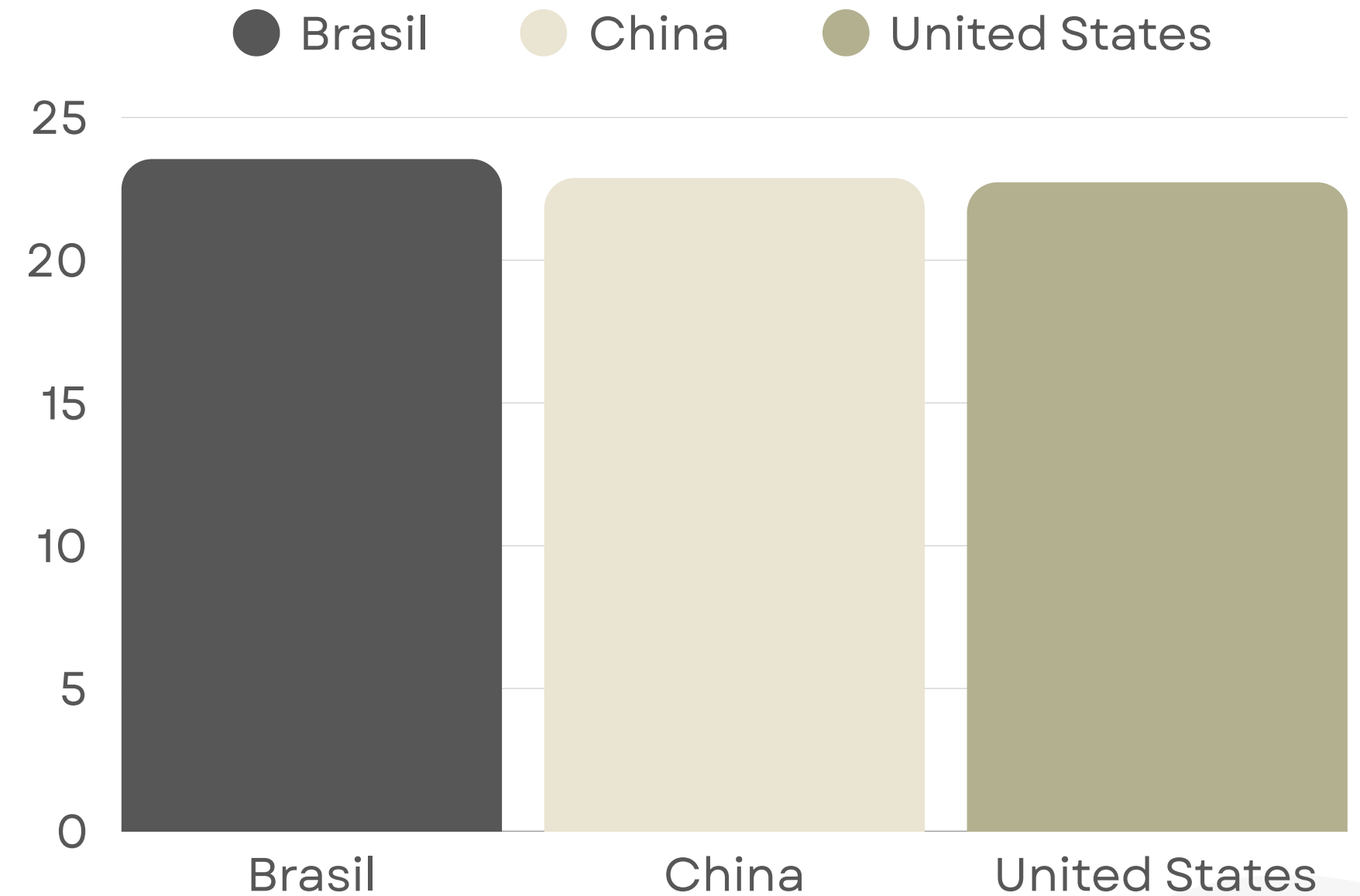


Cohort Semester	0	1	2	3	4	5	6	7	8
2019-S2	100%	5,08%	0,85%	2,54%	3,39%	0,85%	2,54%	1,69%	6,78%
2020-S1	100%	4,26%	2,13%	0,53%	0,53%	3,72%	2,13%	1,06%	
2020-S2	100%	3,32%	1,11%	4,80%	3,32%	2,21%	4,06%		
2021-S1	100%	3,24%	3,78%	3,51%	3,24%	2,97%			
2021-S2	100%	4,34%	3,94%	4,34%	4,54%				
2022-S1	100%	3,79%	3,95%	3,32%					
2022-S2	100%	6,33%	6,45%						
2023-S1	100%	8,06%							
2023-S2	100%								

TOP 3 COUNTRIES

AVERAGE RETENTION RATE OF TOP 3 COUNTRIES

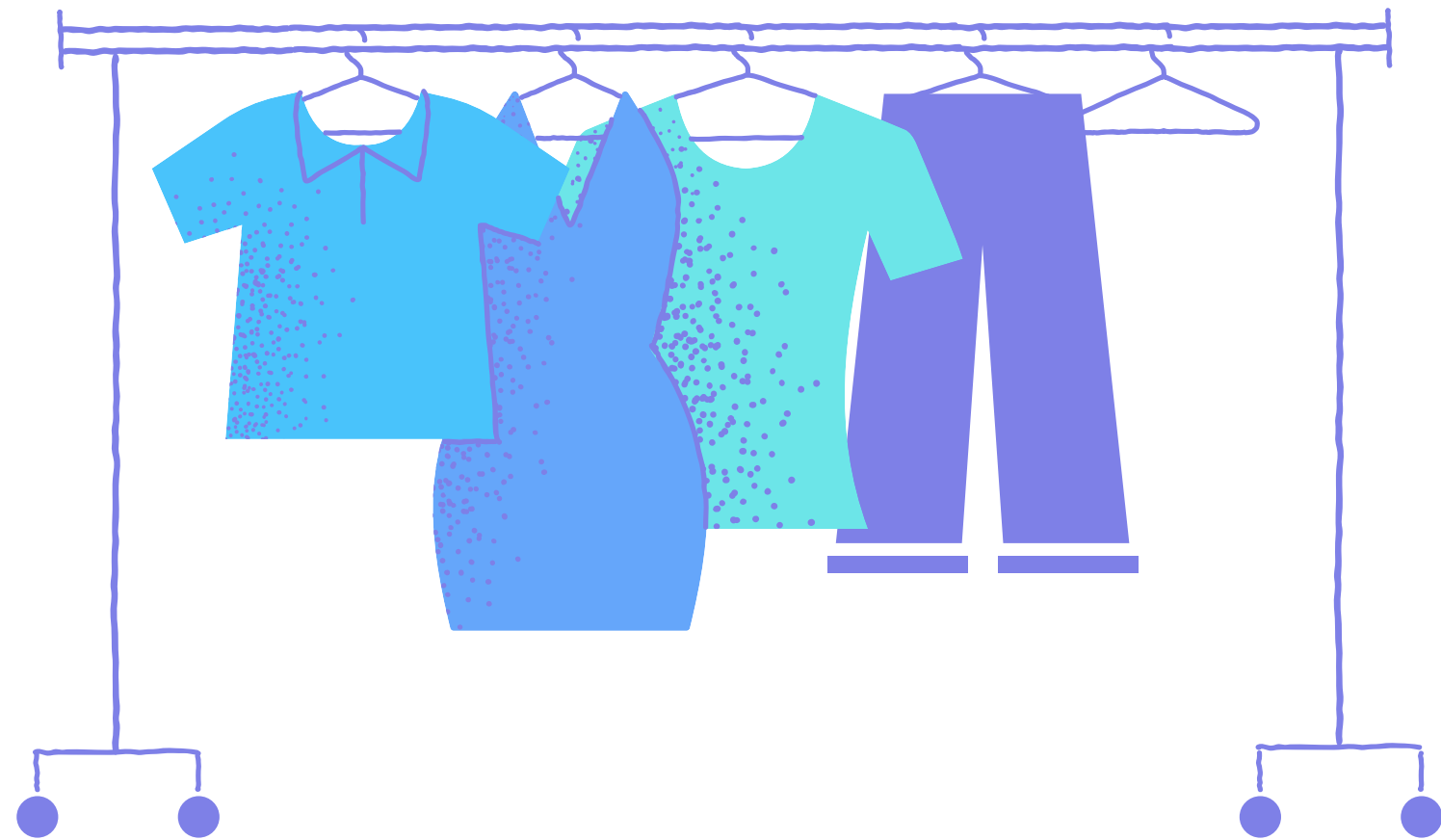
- Brazil consistently shows the weakest performance across all semesters
- China shows a steady decline, it maintains the most stable retention rates overall
- The U.S. starts strongest but experiences the most severe drop



PROJECT OUTLINE



CONCLUSIONS



01

Perform Retention Analysis to Analyze Loyalty of Various Customer Segments

02

Low Level of Customer Loyalty Based on Cohort Retention Analysis

03

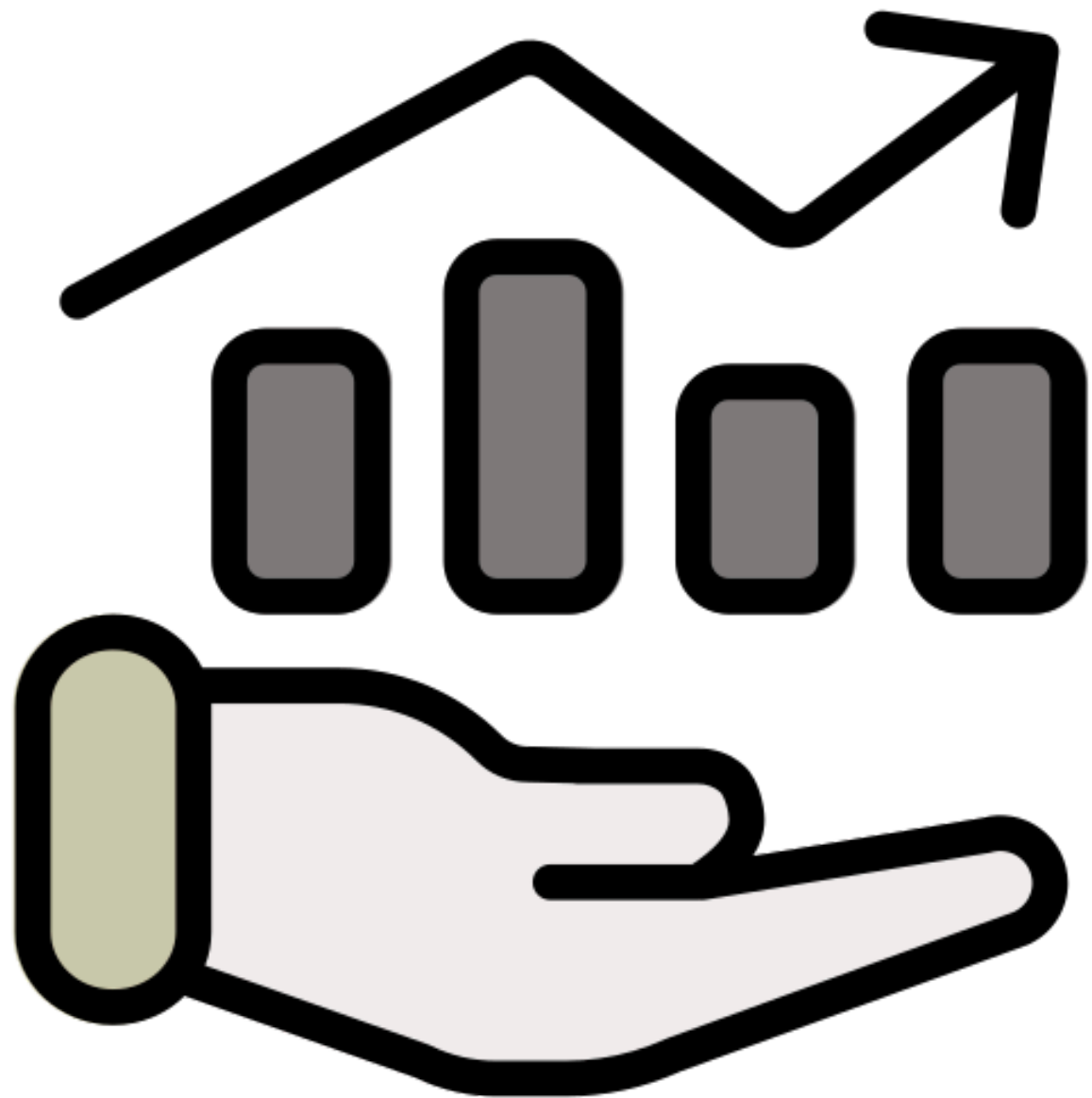
Increasing Count of Order Trend Across Cohort Period

04

Carry Out Developed Campaign and User Privilege Strategies Based on the Cohort Analysis



RECOMMENDATIONS



01

Attract New Users with Second Purchase Discounts

Implement introductory discounts for new customers, applied to their initial purchase. This strategy aims to boost customer retention rates.

02

Enhance Sales through Exclusive Offers for Loyal Users

Introduce enticing deals exclusively tailored for our loyal clientele. This approach seeks to drive higher sales volume from our repeat customers.

03

Attractive Promotional Campaign

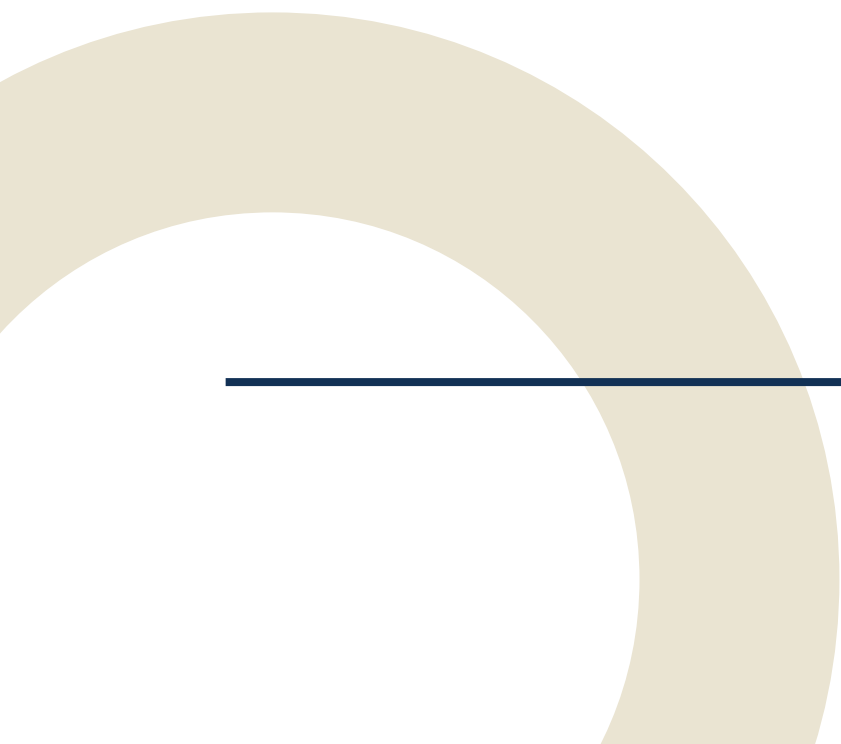
Interactive product campaign that could bring an emotional connection between users and the company so that can increase user loyalty.





THANK YOU

● FOR YOUR NICE ATTENTION



Jakarta, 9 Mei 2025