

# Transforming User Experience

A/B Test Results



# Problem Statement

## Current Challenge:

Low completion rates and high user frustration with the traditional online process.

## Goal:

Assess whether a redesigned, intuitive user interface (UI) with in-context prompts improves user experience, engagement, and completion rates.

## New Design Enhancements:

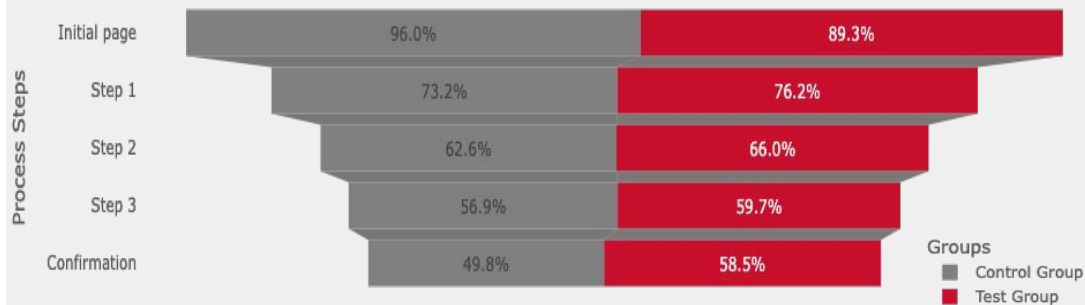
- ❑ **Modernized Interface:** Simplified navigation and clean design.
- ❑ **Contextual Prompts:** Timely cues, messages, and hints guide users through tasks.
- ❑ **Expected Outcomes:** Faster task completion, deeper engagement, and higher satisfaction.

# A/B Test Overview

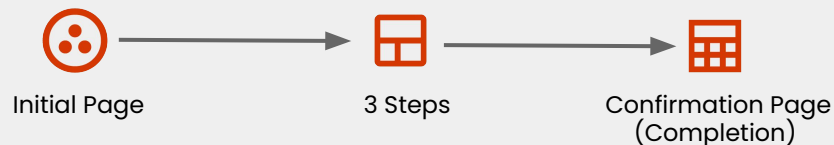
## Study Design

- ❑ **Timeline:**  
March 15, 2017 – June 20, 2017
- ❑ **Groups:**
  - **Control Group:** Traditional online process
  - **Test Group:** Redesigned UI
- ❑ **Raw Data Sources:**
  - **Client Profiles:** Demographics, age, gender, account details.
  - **Digital Footprints:** Online activity (consolidated tracking).
  - **Experiment Roster:** Participant list for A/B testing.
- ❑ **Dataset Cleaned and Combined:**  
Key features include **client demographics**, **activity logs**, **process steps**, and **engagement metrics**.

## Process Steps Funnel Chart



## Process Flow



48,51

Avg Client Age

2,26

Avg No. of Accounts

160,75

Avg Balance

12,17

Avg Tenure(yrs)

6,27

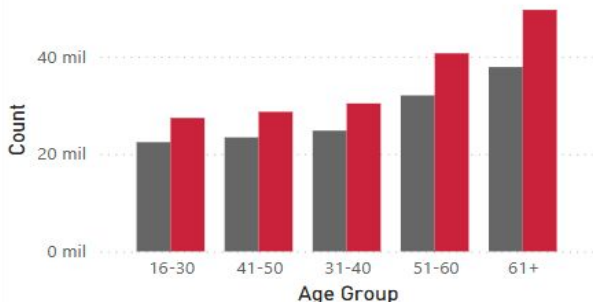
Avg Logons(6m)

3,23

Avg Calls(6m)

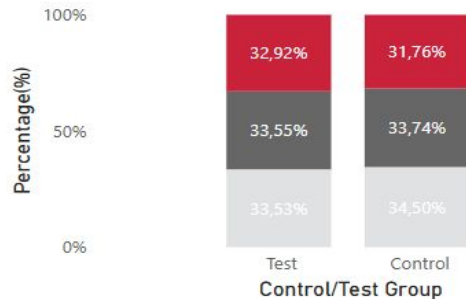
Age Group Distribution by Control/Test

Group ● Control ● Test



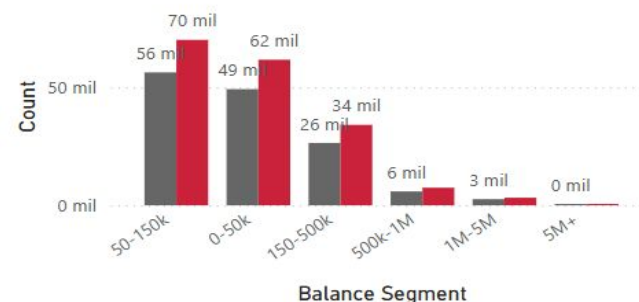
Gender Distribution by Control/Test

Gender ● U ● M ● F



Balance Segment Distribution by Control/Test

Group ● Control ● Test

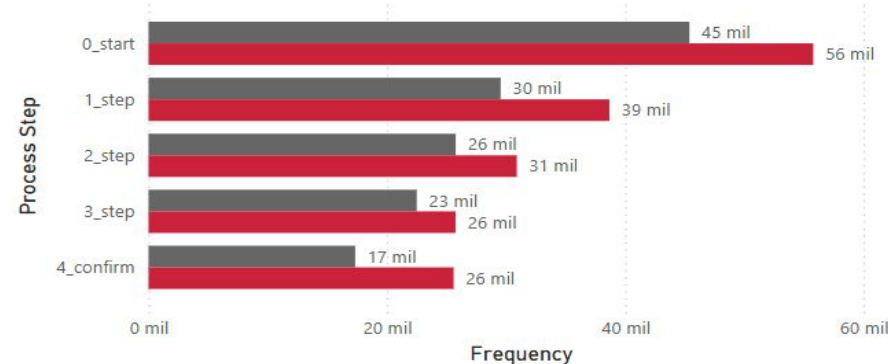


Tenure in Years by Control/Test



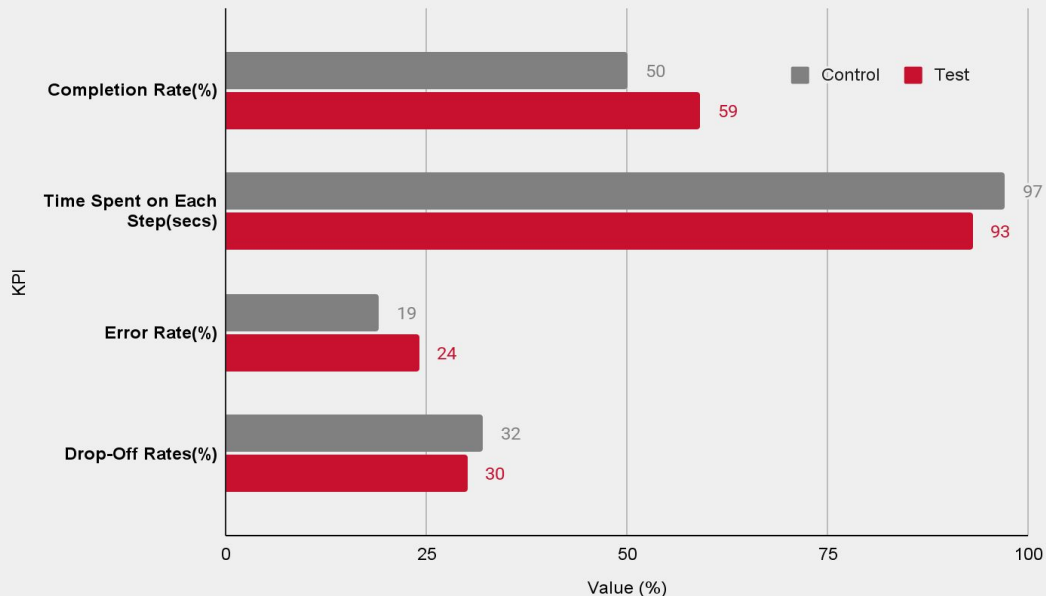
Test vs Control Frequencies by Process Step.

Group ● Control ● Test



# Why These KPIs Matter

## A/B Test results for major KPIs



### Completion Rate

Proportion of users reaching the confirmation page.



### Time spent

Average duration at each step.



### Error Rate

Frequency of users reverting to earlier steps.

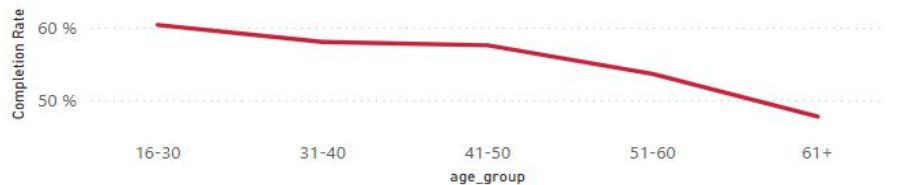


### Drop-off Rates

Percentage of users leaving the process at each step.

54,45 ... 45,55 301,80  
Completion Rate Drop-off Rate Avg Session Duration (seconds)

Completion Rate por age\_group



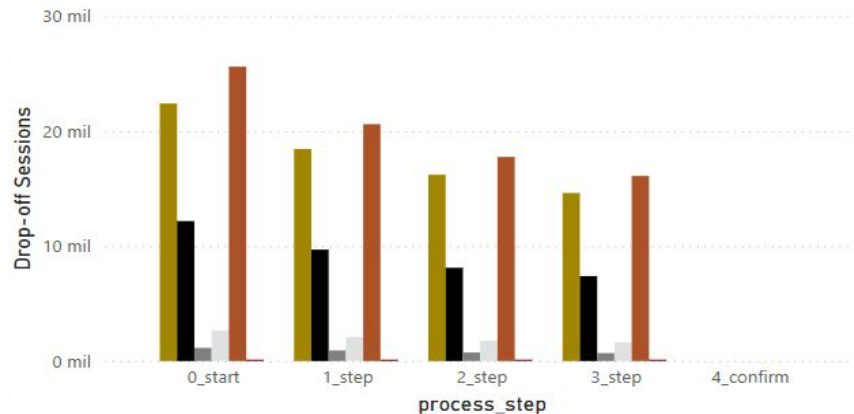
Completion Rate por test\_control y balance\_segment

balance\_segment 0-50k 150-500k 1M-5M 500k-1M 50-150k 5M+

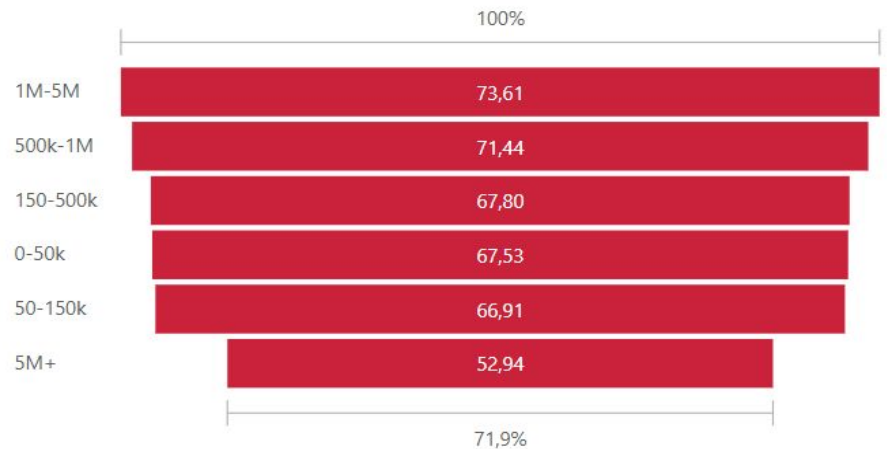


Drop-off Sessions por process\_step y balance\_segment

balance\_segment 0-50k 150-500k 1M-5M 500k-1M 50-150k 5M+

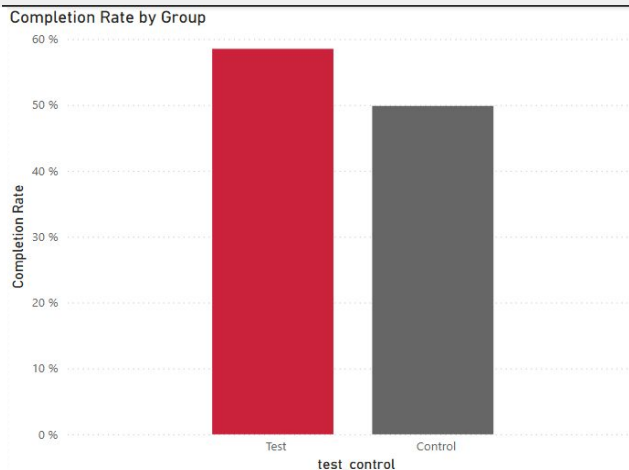


Completion Rate by Segment por balance\_segment



# Hypothesis testing

## H1: Completion Rate by Group



0,00

P-Value

0,00

P-Value (Threshold)

VS

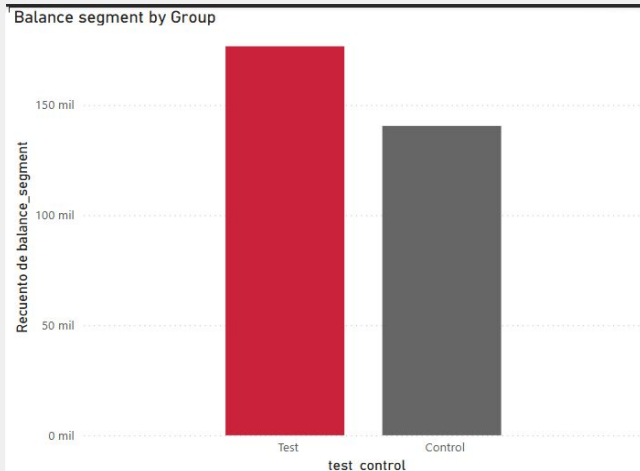
22,86

Z-Statistic

9,67

Z-Statistic (Threshold)

## H2: Balance Segment by Group



2,88

t-Statistic

0,0039...

P-Value balance

VS

-3,78

t-Statistic (Threshold)

0,9999...

P-Value (ThresholdB)

**Thank you!**

