



**CUSTOMER FUNNEL ANALYSIS:** What needs to be done to improve retention



#### **PROJECT GOALS AND SCOPE**

PROJECT GOALS

- Analyze the customer funnel to establish reasons for the customer drop off at different stages.
- Calculate key business metrics to establish the current status of Metrocar's business performance.
- Establish the current problems in business and answer the corresponding business questions.

EXPLORATORY DATA
ANALYSIS

- ✓ETL (SQL, Tableau)
- ✓ Initial Exploratory
  Data Analysis
  (SQL, Tableau):
- ✓ Development and calculation of metrics (SQL, Tableau)
- ✓ Development of visuals and interactive dashboards (Tableau)

DELIVERY & COMMUNICATION

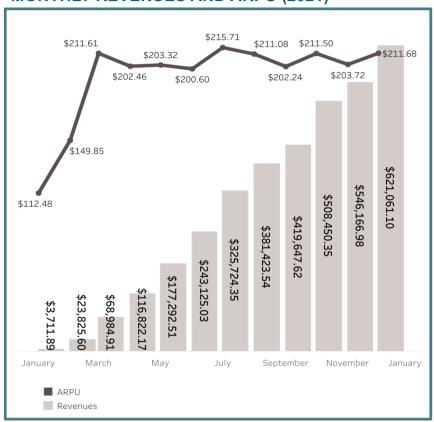
- ✓ Executive summary (.pdf)
- ✓ Full report (.pdf)
- ✓ Four interactive

  Tableau dashboards



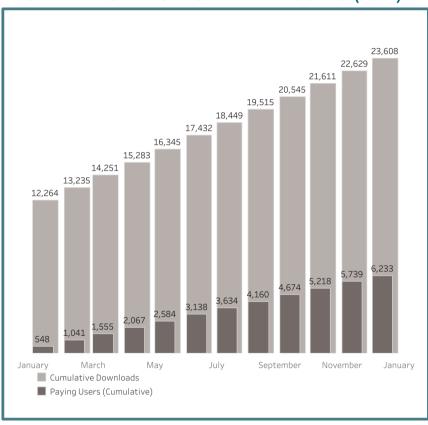
# THE REVENUE GROWTH IS DRIVEN BY A SMALL FRACTION OF CONVERTED DLS: EVEN THOUGH THE KPIS ARE IMPRESSIVE, A SIGNIFICANT MONETIZATION POTENTIAL IS LOST

#### **MONTHLY REVENUES AND ARPU (2021)**

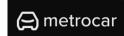


- A successful revenue growth from month to month: in 2021, the total revenue reached \$3,436 million.
- By Jan 2022, the monthly revenue increased by 142 times YoY.

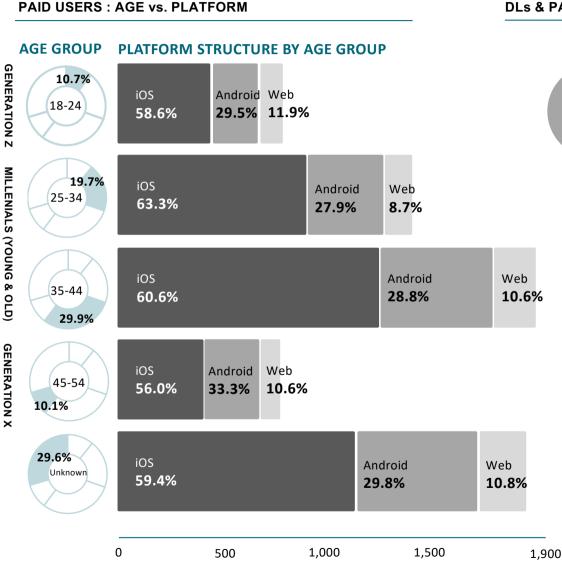
#### **MONTHLY DOWNLOADS AND PAID USERS (2021)**



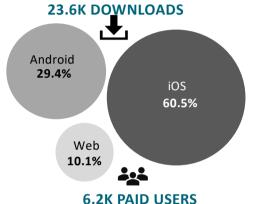
- A significant growth in the number of paying users, which increased from 4.4% of total DLs in Jan 2021 to 26.4% in Dec 2021.
- With monthly ARPU at approx. \$213, a small fraction of loyal paying customers drive monetization.



### © metrocar Older (35-44 Years) and Younger (25-34 Years) Millennials, who show a STRONG PREFERENCE FOR APPLE DEVICES, ARE THE CORE USER DEMOGRAPHICS



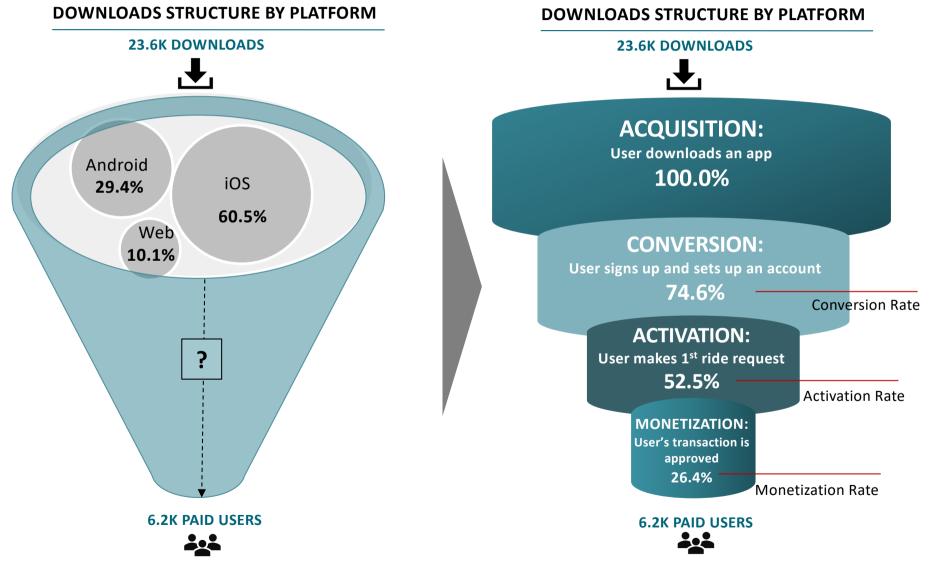
#### **DLs & PAID USERS: STRUCTURE BY PLATFORM**

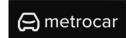


- > Exploratory Data Analysis reveals no significant differences in customer distribution by platform across the funnel (from downloads to paid users)
- All age groups show strong preference for iOS devices, with the highest iOS shares among the Millennials.
- > On the other hand, the highest share of Android users is among the Generation X.
- Interestingly, the Android share is relatively high among **Z Gen** users, too.



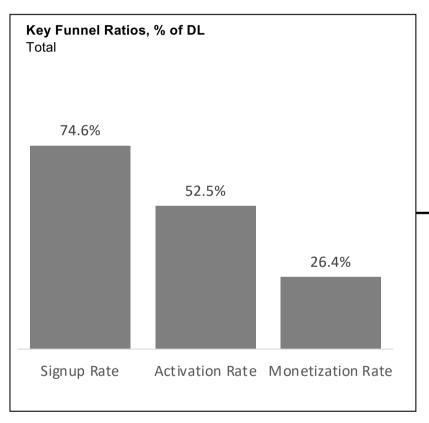
# DEMYSTIFYING THE CUSTOMER FUNNEL BEGINS WITH DEFINING PRINCIPAL STAGES AND ASSOCIATED BENCHMARKS/INDICATORS TO IDENTIFY KEY PROBLEMS



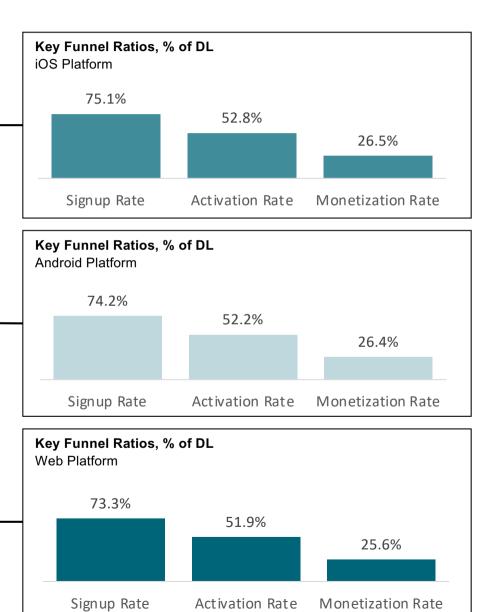


# KEY CUSTOMER FUNNEL METRICS, INCL. SIGNUP, ACTIVATION, AND MONETIZATION RATES, SHOW RELATIVE CONSISTENCY ACROSS ALL THREE USER PLATFORMS

The difference in the funnel ratios is minimal among the user platforms, although iOS users tend to perform better than others.



Due to these small differences, similar retention strategies could be applied across all the three platforms.





# EXPLORATORY DATA ANALYSIS REVEALS KEY ISSUES ACROSS THE FOUR STAGES OF THE CUSTOMER FUNNEL

#### **PROBLEM'S STATUS**

- MODERATE
- CRITICAL

KEY PROBLEMS ALONG
FUNNEL STAGES

#### **ACQUISITION**

1. Underrepresentation of Android users: 32% of mobile downloads (excl. web installations) against 40-45% on average in the US market (various estimates for 2021).

#### **CONVERSION**

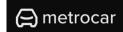
- 2. Relatively low
  Conversion Rate: 75%
  of downloads converted
  to signup accounts.
- Relatively long Time from Download to Signup (24 hours on average).

#### **ACTIVATION**

- 4. Long Activation Time:
  It takes 6 days on
  average between a signup and the 1<sup>st</sup> ride
  request.
- 5. Low Activation Rate:
  Only 53% of downloads
  and 70% of signed-up
  users request rides.
- 6. Low Completion Rate: Only 58% of requested rides are completed.
- 7. Low Acceptance Rate:
  Only 64% of requested rides are accepted by drivers.
- 8. High Cancellation Rate: 42% of requested rides are cancelled by either drivers or users.

#### **MONETIZATION**

- 9. Low Monetization
  Rate: Only 26% of
  downloads have
  become paying users
- 10. Loss due Declined
  Transactions: 5% of
  declined transactions
  resulted in a loss of
  USD 179.1K in 2021
  (Collectability Ratio
  stands at 95% of total
  transactions).

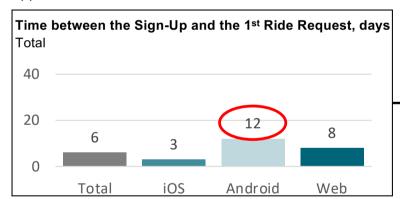


# THE "DORMANT" PERIOD BETWEEN SIGN-UP AND THE 1<sup>ST</sup> RIDE REQUEST IS NOTABLY LONGER AMONG ANDROID USERS, ESPECIALLY WITHIN THE GEN X DEMOGRAPHIC



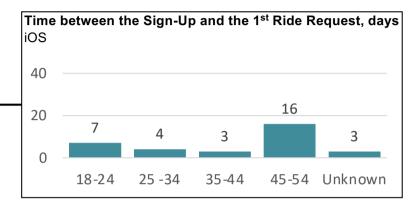
#### **PLATFORM DIMENSION**

- On average, iOS users onboard more quickly than Android or web-based users, suggesting potential user experience friction in the Android app and web browser interface.
- ➤ To reduce the inactive period among web-based users, they should be encouraged/facilitated to transition to mobile apps.

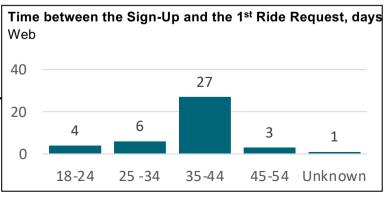


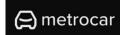
#### **DEMOGRAQPHIC DIMENSION**

- Gen X users (ages 45-54) have the longest inactive periods among both Android and iOS users, indicating that this demographic may benefit from additional onboarding assistance.
- ➤ In the web segment, the patterns of inactivity across demographic groups differ from those observed among mobile users and require further investigation.



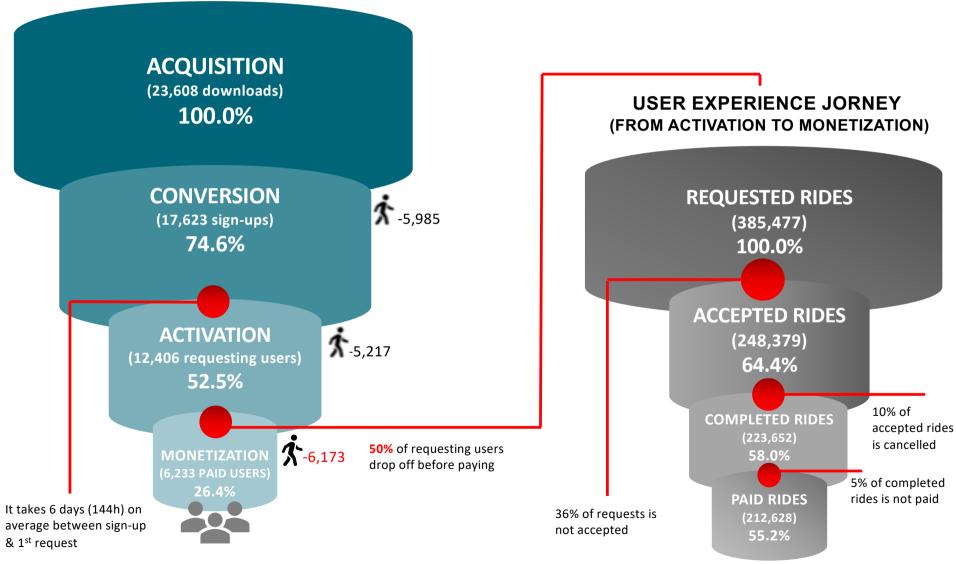






ACTIVATION IS THE MOST CHALLENGING FUNNEL STAGE, WHERE MULTIPLE UX ISSUES CAUSING ONLY 58% OF THE REQUESTED RIDES TO BE COMPLETED AND 55% TO BE PAID

#### **USER FUNNEL**

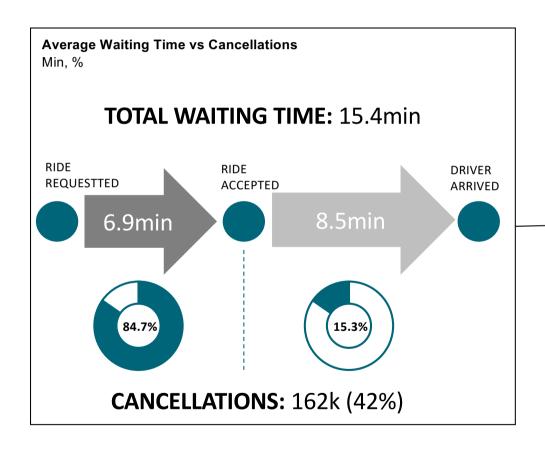


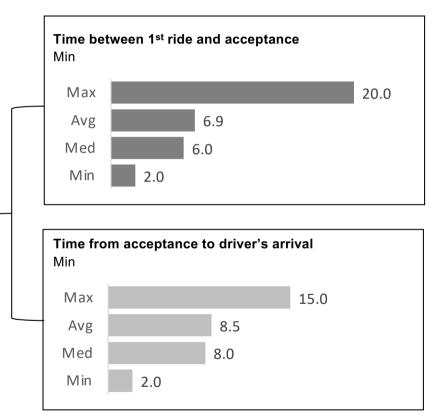
May 2024





# CANCELLATION IS THE PRIMARY UX ISSUE AT THE ACTIVATION STAGE: APPROX 42% OF ALL REQUESTED RIDES ARE CANCELLED, WITH 85% OF THESE CANCELLATIONS OCCURRING BEFORE THE DRIVER APPROVES THE REQUEST





The data do not specify whether drivers or customers are responsible for cancellations, but most occur before the ride request is accepted On average, waiting times are within reasonable ranges at both stages and cannot be considered a sufficient reason for cancellation



# A BLEND OF UX IMPROVEMENTS, TARGETED MARKETING STRATEGIES, AND BOTH CUSTOMER-CENTRIC AND DRIVER-CENTRIC APPROACHES CAN HELP REDUCE USER DROP OFF AT EACH FUNNEL STAGE

### 1 ACQUISITION

#### **USER EXPERIENCE**

- Optimize Performance of the Android app
- Ensure Feature Parity on Android
- Analyze Data & User Feedback

#### **TARGETED MARKETING**

- Android-specific Campaigns
- Incentives for Android Users
- Community Engagement

### 2 CONVERSION

#### **USER EXPERIENCE**

- Optimize Onboarding
- Engage Users Immediately
- Analyze Data & User Feedback

#### **APP PERFORMANCE**

- Reduce Friction
- Follow-up Reminders
- Usability Testing

## STRATEGY RECOMMENDATIONS

### 3 ACTIVATION

#### **USER STRATEGIES**

- Enhance Booking Features
- Implement a Fair Cancellation Fee Policy
- Improve Customer-Driver Communications

#### **DRIVER STRATEGIES**

- Introduce Dynamic Pricing (Price Surging)
- Implement a Reward System for Accepting Rides
- Improve dynamic driver allocation algorithms

### 4 MONETIZATION

#### **PAYMENT OPTIMIZATION**

- Subscription models for frequent users
- Multiple payment options
- Transparent and itemized billing

#### **PAYMENT COLLECTION**

- Pre-Authorization
- Auto-Debit
- Post-Ride payments



## BEYOND CUSTOMER FUNNEL ISSUES: EDA UNCOVERS OTHER SIGNIFICANT BUSINESS PERFORMANCE CHALLENGES

### ADDITIONAL BUSINESS PROBLEMS

### PRICE SURGING CASE

1. Data analysis shows that there is a case for price surging between from 9 am and 11 am inclusive and from 5 pm to 7 pm inclusive.

### USER SENTIMENT

2. Almost half of rating scores are ranged between 1 and 3 and considered negative, whereas the primary reason for negative rating is driver's attitude

### TRAINING FOR DRIVERS

3. The poor condition of user sentiment needs to be tackled by extensive, profound and regular training of drivers.

### GEOGRAPHIC COVERAGE

4. Overrepresentation in New Jersey and underrepresentation in certain NYC areas, such as South Brooklyn, South Queens, and Staten Island.

FOR MORE INFORMATION, PLEASE REFER TO THE EXTENDED REPORT



#### THANK YOU FOR YOUR ATTENTION!

### QUESTIONS?



**COMMENTS?** 

### **PROPOSALS?**



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#### **CLICK HERE:**



Four Interactive Tableau Dashboards to further slice and dice the User Cohort Data

https://public.tableau.com/app/profile/oleksiy.da nilin/viz/MetrocarDashboards/ANIMATEDPICKUP LOCATIONMAPMONTHLY

#### **CLICK HERE:**



All the project's deliverables, incl. report, and SQL code

https://github.com/oleksiy-danilin/Metrocar