

**CASE STUDY**

**#01 LYFT**

# STEP BY STEP

1. THE CASE
2. STUDYING LYFT
3. ANALYSING DATA
4. CHOOSING QUESTIONS
5. PROPOSING A SOLUTION

# THE CASE

## WHO AM I?

I'AM THE PRICING PRODUCT MANAGER FOR LYFT'S RIDE-SCHEDULING FEATURE,  
AND I'M LAUNCHING A NEW CITY.

## GOAL

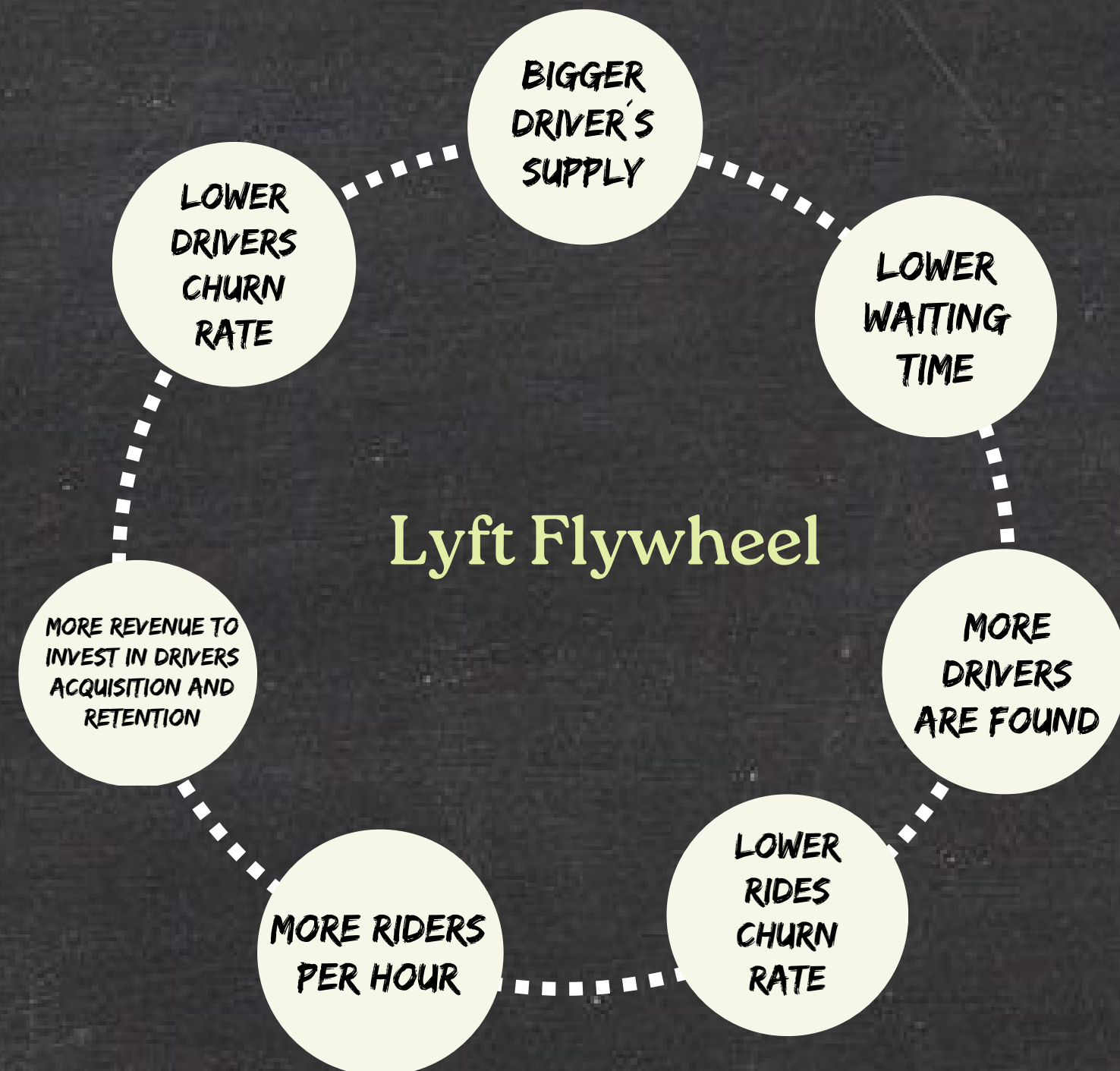
TO MAXIMIZE NET REVENUE FOR THE NEXT 12 MONTHS ON THE ROUTE AIRPORT-DOWNTOWN

## CORE QUESTION

HOW MUCH MORE OR LESS DO I PAY DRIVERS PER TRIP BY CHANGING LYFTS' TAKE ,  
ASSUMING I CANNOT CHARGE RIDERS MORE THAN THE PREVAILING RATE?

[HTTPS://CREATINGVALUE.SUBSTACK.COM/P/REAL-PROBLEMS-WE-TACKLE-PRICING-LEVEL](https://creatingvalue.substack.com/p/real-problems-we-tackle-pricing-level)

# STUDYING LIFT



**WHY TO STUDY LYFT APP**  
CLIPBOARD'S MARKETPLACE HAS MECHANICS SIMILAR TO LYFT'S RIDE-SCHEDULING BUSINESS, SINCE CLIPBOARD USERS ALSO "BOOK A TRANSACTION IN THE FUTURE."



# LYFT BUSINESS MODEL CANVAS

## BUSINESS MODEL

TWO SIDED-MARKETPLACE  
BETWEEN DRIVERS AND RIDERS

THE COMPANY OFFERS RIDE  
SHARING, BIKES AND  
SCOOTERS RENTAL, ACCESS TO  
AUTONOMOUS VEHICLES AND  
PROVISION OF  
TRANSPORTATION OPTIONS  
THROUGH PLATFORM AND  
MOBILE-BASED APPLICATIONS.

## CUSTOMER SEGMENTS

### RIDERS

- PEOPLE WITHOUT A CAR
- THOSE WHO DON'T WANT TO DRIVE
- PEOPLE WHO LOVE TO MAKE NEW FRIENDS WHILE TRAVELING
- PEOPLE SEEKING AN AFFORDABLE RIDE SERVICE FROM THEIR DOORSTEP

### DRIVERS

- PEOPLE WHO HAVE A VEHICLE AND WANT TO MAKE MONEY
- PEOPLE WHO LOVE TO DRIVE
- THOSE LOOKING FOR A PART-TIME OR FULL-TIME JOB WITH A FLEXIBLE SCHEDULE

## VALUE PROPOSITION

### RIDERS

- MINIMUM WAITING TIME
- A FEELING OF SAFETY AND COMFORT
- A WIDER RANGE OF OPTIONS FOR A RIDE
- ECONOMICAL RIDES

### DRIVERS

- A SOURCE OF INCOME
- FLEXIBLE SCHEDULE
- QUICK PAYOUT SYSTEM
- EXTENSIVE SUPPORT VIA DIFFERENT PROGRAMS

## CUSTOMER RELATIONSHIP

SOCIAL MEDIA  
CUSTOMER SUPPORT  
REVIEWS/RATING/FEEDBACK

## CHANNELS

APP  
WEBSITE

## REVENUE STREAMS

- COMMISSION-BASED REVENUE MODEL
- SURGE PRICING REVENUE MODEL
- SUBSCRIPTION - BASED REVENUE MODEL (LIFT PINK))
- MULTIMODAL BUSINESS MODEL ((BIKES AND SCOOTER, PUBLIC TRANSIT, RIDESHARING MARKETPLACE, AUTONOMOUS VEHICLES))

## COST STRUCTURE

TECHNOLOGICAL INFRASTRUCTURE  
SALARIES TO PERMANENT EMPLOYEES  
PAYOUT TO DRIVERS  
MARKETING  
INSURANCE COSTS

## KEY ACTIVITIES

PRODUCT DEVELOPMENT AND MANAGEMENT  
MARKET AND CUSTOMER ACQUISITION  
DRIVERS BACKGROUND CHECK  
MANAGING DRIVERS PAYOUTS  
CUSTOMER SUPPORT

# ANALYSING DATA

1. DRIVER

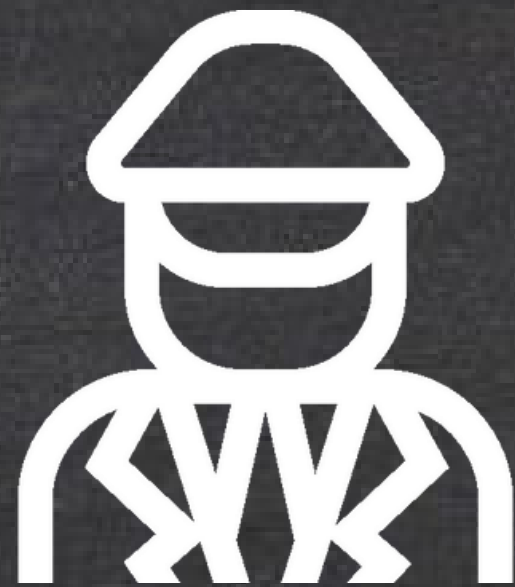
2. RIDER

3. RIDES

4. RIDERS CHURN RATE

5. DRIVERS CHURN RATE

# DRIVER

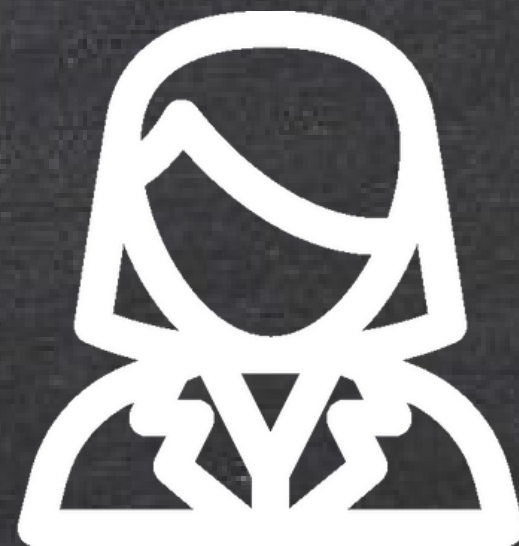


- ASSUMING A CONSTANT CAC
- ASSUMING A CHANGE IN THE CHURN RATE AND IN THE RIDERS/MONTH IF THE PREVAILING WAGE CHANGES

LYFT'S TAKE	CAC	CHURN RATE DRIVER	RIDES/MONTH
\$6	\$500	5%	100
\$3	\$500	?	?



# RIDER



ASSUMING THAT THE RIDERS CHURN RATE PERCENTAGE AND  
THE AVERAGE RIDERS/MONTH IS CONSTANT

CAC	CHURN RATE RIDERS	RIDES MONTH AVERAGE
\$10 TO \$20	10% (ALWAYS FOUND A DRIVER)	1
	33% (FAILED TO FIND DRIVER)	



# RIDES



RIDES COST	LYFT'S TAKE	MATCH RATES
\$25	\$6	60%
	\$3	93%

# RIDERS CHURN RATE

LYFT'S TAKE	EXPERIENCE	RIDES	MATCH RATE	RIDER'S CHURN	RIDERS LOST	ACTIVE RIDERS	TOTAL RIDER'S STAYED	TOTAL RIDER'S LOST
6\$	FOUND A DRIVER	100	60%	10%	6	54	80,8	19,20
	FAILED TO FIND DRIVER		40%	30%	13.2	26,8		
3\$	FOUND A DRIVER	100	93%	10%	9.3	83,7	88,39	11,61
	FAILED TO FIND DRIVER		7%	30%	2.31	4,69		

LYFT TAKE OF 6\$  
 $100 - 19,2 = 80.80$

LYFT TAKE OF 3\$  
 $100 - 11,61 = 88.39$

**REDUCING LYFT'S TAKE FROM 6/RIDE TO 3/RIDE  
INCREASED THE MATCH RATES FROM 60% TO 93%, WHICH  
MEANS THAT, ALTHOUGH RIDERS CHURN MAINTAINED IN A  
STEADY RATE OF 10% MONTHLY (FOR RIDERS WHO DON'T  
EXPERIENCED A FAILED TO FIND A DRIVER) AND 33%  
MONTHLY (FOR RIDERS WHO DID EXPERIENCED A FAILURE),  
THE NUMBER OF RIDERS LOST IN A MONTH DECREASED  
FROM 19,20% TO 11,61%.**



**IF MATCH RATES IN THE PRICING EXPERIMENT ROSE FROM  
60% TO ROUGHLY 93%, IT HAD AN INCREASE OF 55%.  
THE CASE ALSO STRESSES THAT THE GROWTH HAPPEND  
ALMOST INSTANTLY.**

**THEREFORE, WE CAN ASSUME THAT THE ELEVATION OF  
MATCH RATES WAS CAUSED BY THE DECREASE OF  
DRIVERS CHURN RATE AND NOT BECAUSE OF THE  
ACQUISITION OF NEW DRIVERS.**

# DRIVERS CHURN RATE

LYFT'S TAKE	CAC	CHURN RATE DRIVER	RIDES/MONTH
\$6	\$500	5%	100
\$3	\$500	2,25%	155

ASSUMING THAT THE DRIVERS  
CHURN RATE IS INVERSELY  
PROPORTIONAL TO RIDERS MATCH  
RATES, THE DRIVERS CHURN RATE  
WITH LYFT'S TAKE OF \$3/RIDE WAS  
2,25% .

ALSO, IF THE DRIVERS COMPLETE  
100 RIDES/MONTH WITH LYFT'S  
TAKE OF \$6, WE CAN ASSUME THAT  
THEY WILL COMPLETE 155  
RIDES/MONTH WITH LYFT'S TAKE OF  
\$3.

# CHOOSING QUESTIONS

**A) HOW MUCH PROFIT ONE DRIVER GIVES TO THE COMPANY IN ONE YEAR  
WITH LYFT'S TAKE OF \$3 AND \$6?**

**B) HOW MUCH PROFIT 100 DRIVERS GIVES TO THE COMPANY –  
CONSIDERING DRIVERS CHURN RATE – WITH LYFT'S TAKE OF \$3 AND  
\$6?**



# HOW MUCH PROFIT DOES ONE DRIVER GIVES TO THE COMPANY IN ONE YEAR WITH LYFT'S TAKE OF \$3 AND \$6?

WHAT WE ARE TAKING INTO ACCOUNT:

- A) LYFT'S TAKE IN ONE YEAR BEFORE ANY DISCOUNTS = LYFT'S GROSS REVENUE
- B) RIDERS LOST IN THE SECOND MONTH DUE TO THE CHURN RATE
- C) THE COST OF ACQUISITION OF NEW RIDERS TO REPLACE THE LOST ONES

LYFT'S TAKE OF \$6 - 1 DRIVER - 100 RIDERS  
LYFT'S TAKE OF \$3 - 1 DRIVER - 155 RIDERS

SINCE LYFT IS NOT STARTING ITS BUSINESS, WE ARE ASSUMING THAT THE DRIVER HAD ALREADY BEEN ACQUIRED BY THE COMPANY IN THE BEGGINING OF THE YEAR - THIS DRIVER'S CAC WAS NOT PART OF THE MATH

# LYFT'S TAKE PER DRIVER

IN THE MONTH

DRIVER X RIDES X LYFT'S TAKE

$$1 \times 100 \times \$6 = \$600$$

$$1 \times 155 \times \$3 = \$465$$

IN THE YEAR

GROSS REVENUE X MONTHS

$$\$600 \times 12 = \$7200$$

$$\$465 \times 12 = \$5580$$

# RIDERS LOST IN THE SECOND MONTH

TAKE	JAN	FEB	DRIVERS LOST
6\$	100 DRIVERS	80,8 DRIVERS	19,20
3\$	155 DRIVER	137 DRIVERS	18

LYFT`S TAKE OF \$6 – RIDERS CHURN RATE 5%  
LYFT`S TAKE OF \$3 – RIDERS CHURN RATE 2,25%

ASSUMING THAT EACH DRIVER STARTS THE PERIOD WITH 100 RIDERS (LYFT`S TAKE OF \$6) AND 155 RIDERS (LYFT`S TAKE OF \$3), WE CAN THEN APPLY THE RIDERS CHURN RATE OF 5% AND 2,25% AND CALCULATE HOW MANY DRIVERS WERE LOST IN THE SECOND MONTH.



# THE COST OF ACQUISITION OF NEW RIDERS TO REPLACE THE LOST ONES

## NEW RIDERS NEXT MONTH

LYFT TAKE OF 6\$

$$19.2 \times 15\$ = \$288$$

LYFT TAKE OF 3\$

$$18 \times 15\$ = \$270$$

**CAC RIDER: 10\$ TO 20\$**

$$(10\$+20\$)/2 = \text{AVERAGE OF } 15\$$$

AFTER ONE MONTH, DUE TO OUR CHURN RATE, WE ARE GOING TO LOOSE SOME RIDERS.

FOR THIS DRIVER KEEP HAVING HIS TOTAL AMOUNT OF RIDERS, WE WILL NEED TO GET NEW RIDERS TO FILL THE GAP THAT WE LOST.

THEN, WE WILL MULTIPLY THE NUMBER OF DRIVERS LOST IN EACH LYFT'S TAKE BY THE AVERAGE COST OF CAC RIDERS, AND THEN MULTIPLY IT FOR 11 (TO HAVE A COMPLETE A YEAR)

**THE RESULT = HOW MUCH PROFIT DOES ONE DRIVER GIVES TO THE  
COMPANY IN ONE YEAR WITH LYFT'S TAKE OF \$3 AND \$6?**

**LYFT'S GROSS REVENUE FOR ONE DRIVER- (RIDERS LOST IN THE SECOND MONTH X AVERAGE OF RIDERS  
CAC X 11)**

$$\begin{aligned} &\text{LYFT'S TAKE \$6 -} \\ &\$7200 - (\$288,00 \times 11) \\ &\$7200 - \$3168,00 = \$4.032,00 \end{aligned}$$

$$\begin{aligned} &\text{LYFT'S TAKE 3 -} \\ &\$3600 - (\$270,00 \times 11) \\ &\$3600 - \$2970 = \$2.610,00 \end{aligned}$$

## WHAT NOW?

WELL, WITH THIS MATH I COULD SEE THAT, EVEN THOUGH LYFT'S TAKE OF \$3 INCREASED THE MATCH RATES BETWEEN DRIVERS AND RIDERS AND PRESUMABLY DECREASED THE MONTHLY CHURN RATE OF DRIVERS AND ENCOURAGED DRIVERS TO TAKE MORE TRIPS, IT WAS NOT SUFFICIENT TO MAXIMIZE LYFT'S NET REVENUE.

HOWEVER, A DOUBT REMAINS: THE SITUATION WOULD CHANGE IF I ESCALATED THE NUMBER OF DRIVERS TO 100 DRIVERS AND TAKE INTO ACCOUNT DRIVERS CHURN RATE AS WELL?

THAT IS WHY I DECIDED TO MAKE MY SECOND QUESTION: **HOW MUCH PROFIT 100 DRIVERS GIVES TO THE COMPANY – CONSIDERING DRIVERS CHURN RATE – WITH LYFT'S TAKE OF \$3 AND \$6?**



**HOW MUCH PROFIT 100 DRIVERS GIVES TO THE COMPANY –  
CONSIDERING DRIVERS CHURN RATE – WITH LYFT'S TAKE OF \$3  
AND \$6?**

**STEP BY STEP:**

- A) FIND LYFT'S NET REVENUE PER DRIVER/MONTH**
- B) MULTIPLY BY 100 TO KNOW LYFT'S NET REVENUE/MONTH FOR 100 DRIVERS**
- C) APPLY DRIVERS CHURN RATE AND FIND DRIVERS LOST IN THE SECOND MONTH**
- D) MULTIPLY FOR THE NECESSARY COSTS OF ACQUIRING NEW DRIVERS (IN ORDER TO MAINTAIN 100 DRIVERS).**
- E) MULTIPLY FOR 11 TO KNOW DRIVER'S CAC FOR THE WHOLE YEAR IN ORDER TO MAINTAIN 100 DRIVERS**

FIND LYFT'S NET REVENUE PER DRIVER/MONTH AND 100 DRIVERS/MONTH

LYFT'S GROSS REVENUE A YEAR PER DRIVER	RIDERS LOST IN THE SECOND MONTH X AVERAGE OF RIDERS CAC X 11	LYFT'S NET REVENUE A YEAR PER DRIVER	LYFT'S NET REVENUE PER DRIVER/MONTH	LYFT'S NET REVENUE 100 DRIVERS/MONTH
7200	3168	4032	336,00	33600,00
5580	2970	2610	217,50	21700,50

REMEMBERING:  
LYFT'S GROSS REVENUE A YEAR/DRIVER  
- RIDERS LOST IN THE SECOND MONTH X  
AVERAGE OF RIDERS CAC X 11 = LYFT'S  
NET REVENUE YEAR/DRIVER

APPLY DRIVERS CHURN RATE AND FIND DRIVERS LOST IN THE SECOND MONTH

NOW, WE APPLIED DRIVERS CHURN RATE ( OF 5% OR 2,25%, DEPENDIND ON THE LYFT´S TAKE) AND FIND OUT THE NUMBER OF DRIVERS AFTER CHURN RATE.

WE ALSO MULTIPLIED THE NUMBER OF DRIVERS LOST IN THE SECOND MONTH FOR THE NECESSARY COSTS OF ACQUIRING NEW DRIVERS (IN ORDER TO MAINTAIN 100 DRIVERS). THE COST OF ACQUISITION OF NEW DRIVERS WILL BE SPENT MONTHLY.

LYFT´S TAKE	CAC	CHURN RATE DRIVER	DRIVERS IN THE FIRST MONTH	DRIVERS AFTER CHURN RATE (SECOND MONTH)	MONTHLY CAC TO KEEP 100 DRIVERS
\$6	\$500	5%	100	95	2500,00
\$3	\$500	2,25%	100	97,75	1125,00





**HOW MUCH PROFIT 100 DRIVERS GIVES TO THE COMPANY –  
CONSIDERING DRIVERS CHURN RATE – WITH LYFT'S TAKE OF \$3 AND  
\$6?**

**LYFT'S TAKE \$6 –**

$$\text{\$403.200,00} - \text{\$27.500,00} = \text{\$375.700,00}$$

**LYFT'S TAKE \$3 –**

$$\text{\$261.000,00} - \text{\$12.375,00} = \text{\$248.625,00,00}$$

# PROPOSING A SOLUTION

AFTER STUDYING THE CASE AND ANALYZING THE SELF- PROPOSED QUESTIONS, I CONCLUDED THAT THE REDUCING IN LYFT'S TAKE POSITIVELY AFFECTED THE MATCH RATES, AS WELL AS IT HAD A BENEFICIAL IMPACT ON DRIVER'S CHURN RATE.

THESE POSITIVE EFFECTS HELPED TO REDUCE THE NEGATIVE IMPACT ON THE COMPANY'S NET REVENUE. AFTER ALL, EVEN THOUGH THE DROP IN LYFT'S TAKE WAS 50%, THE DROP IN NET REVENUE DID NOT COME CLOSE TO THIS.

THERE IS ALSO A POSSIBILITY THAT THE INCREASE IN DRIVER'S WAGE MAY HAVE LOWERED THE DRIVER'S CAC, BUT THIS INFORMATION WAS NOT PART OF THE CASE, REASON WHY THE CAC WAS CONSIDERED CONSTANT IN BOTH LYFT'S TAKES.

EVEN SO, WITH THE DATA PROVIDED, IT IS MORE PROFITABLE FOR THE COMPANY TO KEEP WITH LYFT'S TAKE OF \$6 WITH REGARD TO MAXIMIZE NET REVENUE.

PS: WITH THE INFORMATION I HAD AND THE ONLY PRICING EXPERIMENT MADE, I COULDN'T ANALYSE THE BEHAVIOUR OF DRIVERS AND RIDERS WITH OTHER RATES.