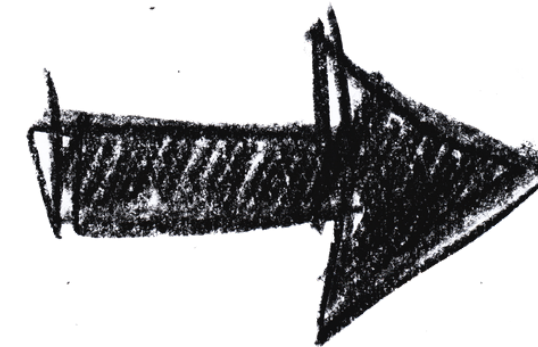




# **#1 Portfolio**

# **Story-telling Data Visualization**



**Prepared By : Hadiyanto**

Data  
Analysis  
Project

Desember 2021

# Living Wage Top 100 cities in US

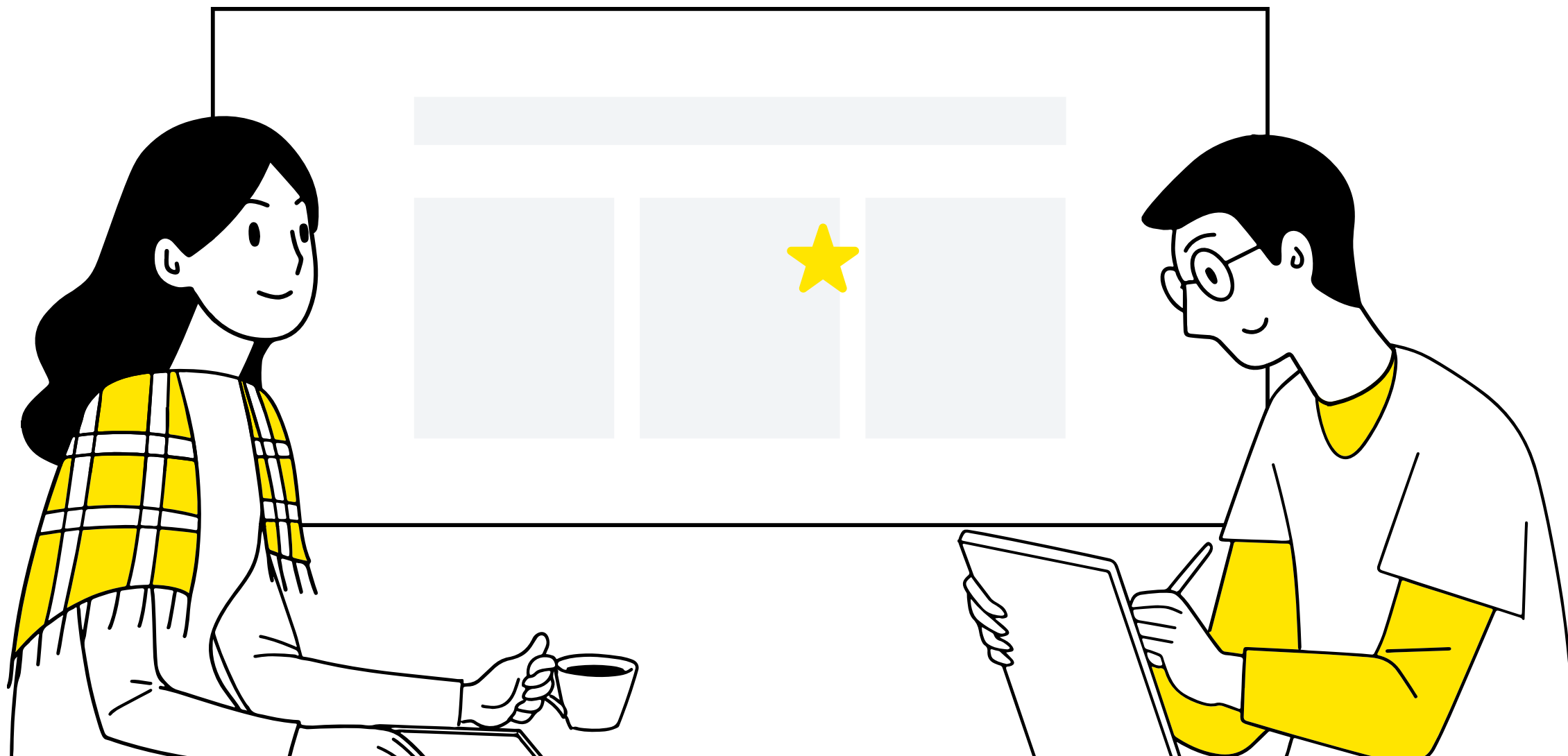


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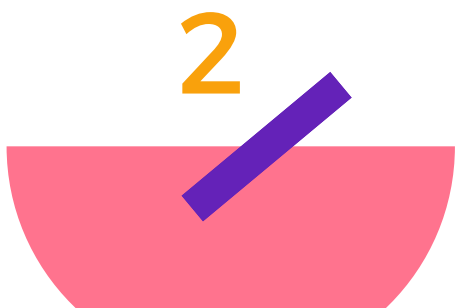
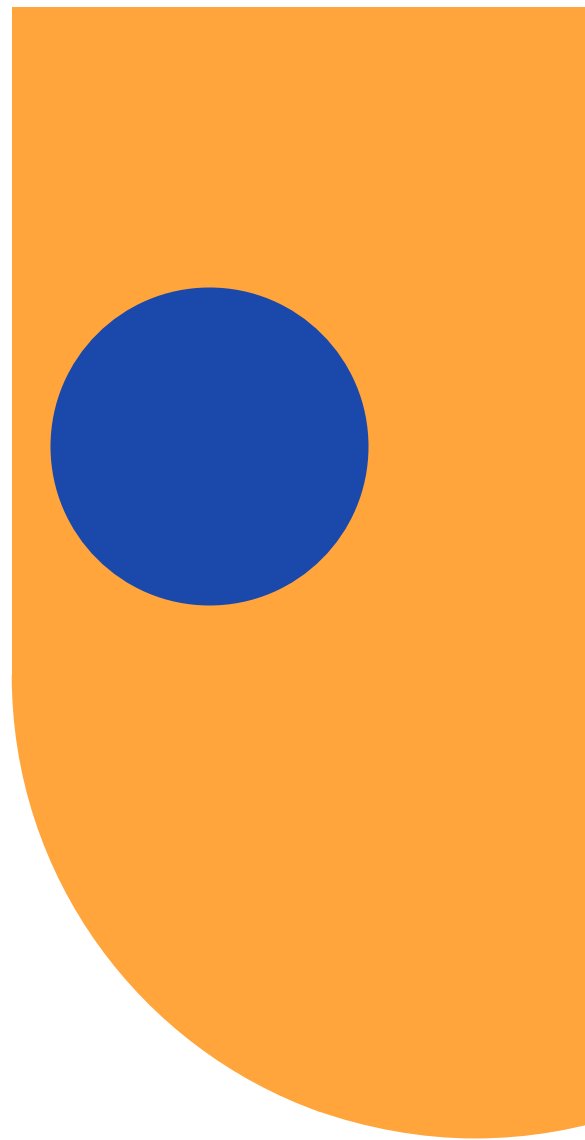
10

12

# Background

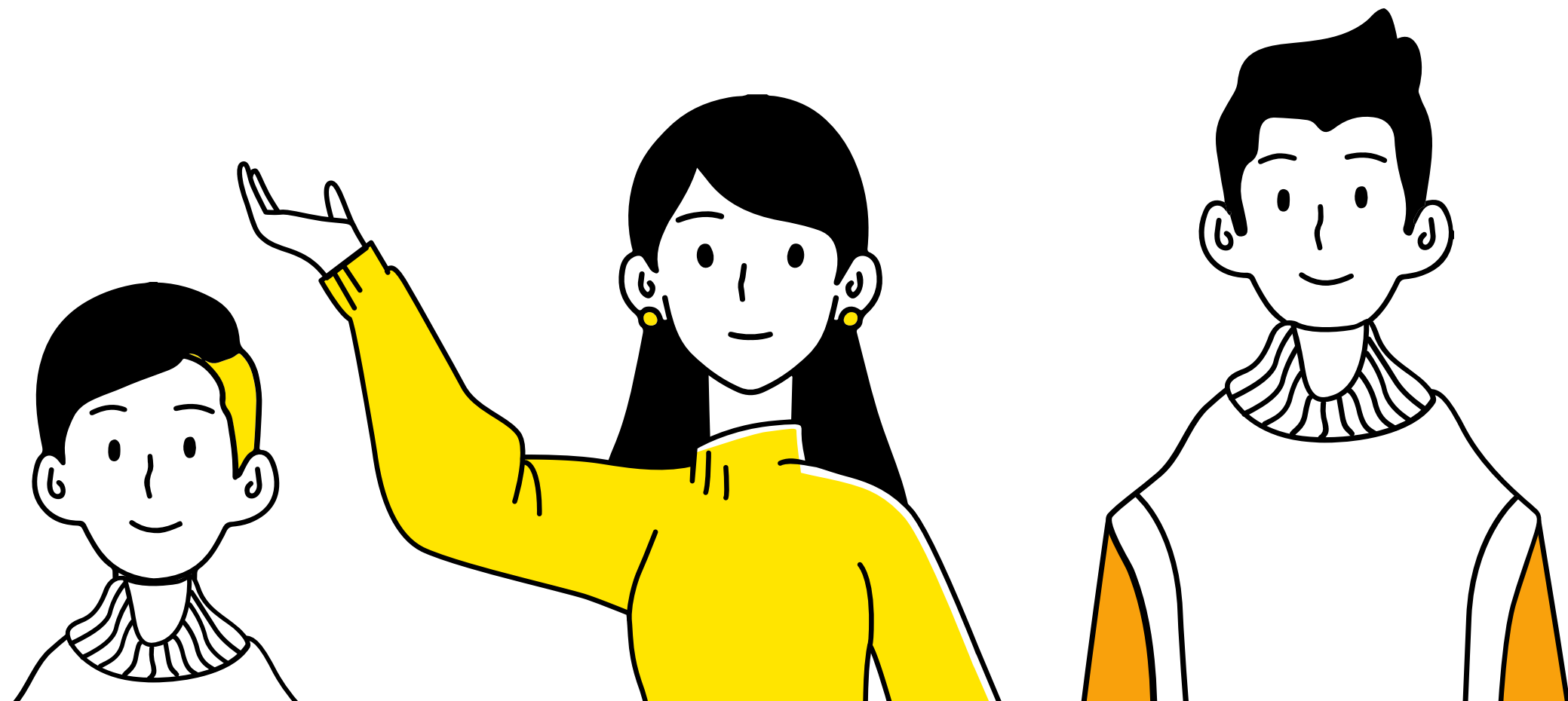
Minimum living wage in the world is increasing each year, especially in the US with high population density. There is significant minimum wage variance between cities in the US.

The living wage data used is the hourly rate that an individual in a household must earn to support his or herself and their family.

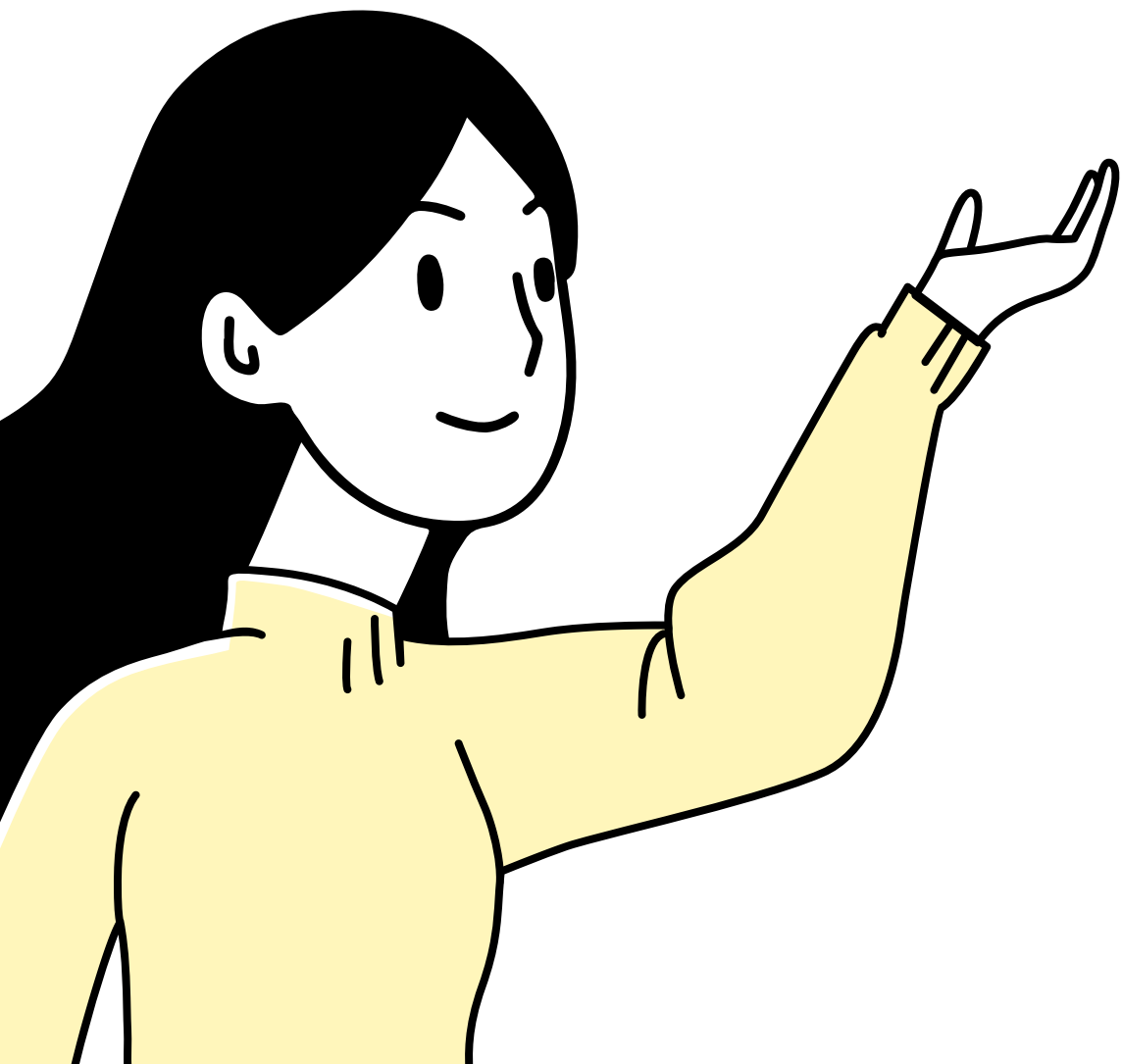


# Questions Given

Tina is a junior high school student from England, due to her parents' work, they have to move to the United States and have to survey the United States minimum living wage first.



Firstly, they need to know which city has had the most growth over ten years ? It is said that higher population growth rates would clearly lead to higher economic growth rates.

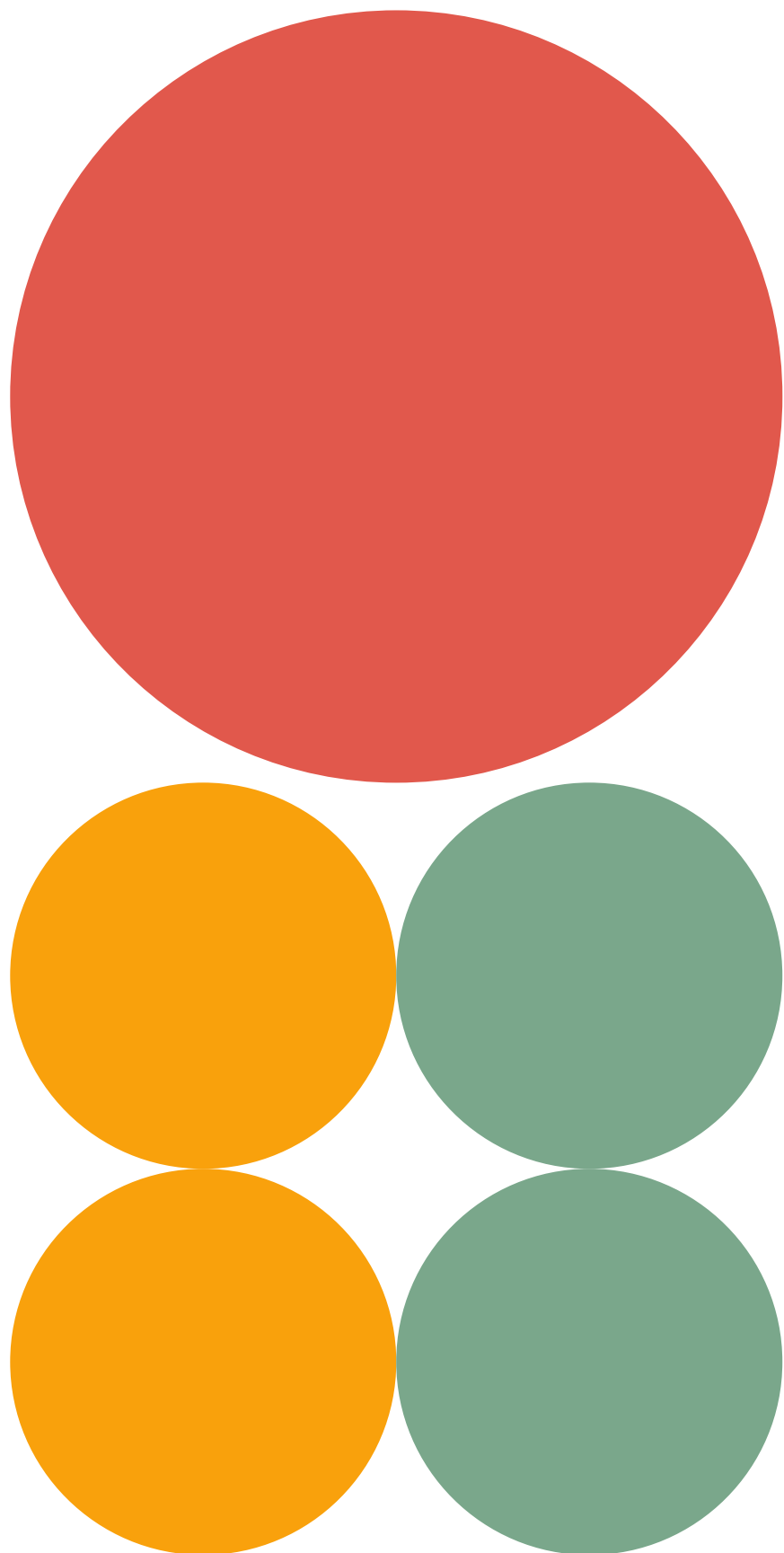


code editor

```
1 SELECT
2   city,
3   population_2020,
4   population_2010,
5   (population_2020-population_2010)*100/population_2010 as growth_ratio
6 FROM
7   `qualified-day-328213.Customer_data.Living_Wage`
8 ORDER BY
9   growth_ratio desc
10 limit 1
11
```

Results

Row	city	population_2020	population_2010	growth_ratio
1	Irvine	307670	212375	44.87110064743967



She is curious do the top 5 highest population cities have the highest density as well ?

code editor

```
1 SELECT
2   city,
3   population_2020,
4   density
5 FROM
6   `qualified-day-328213.Customer_data.Living_Wage`
7 ORDER BY
8   population_2020 desc
9 limit 5
10
```

Results

	city	population_2010	density ▾
1.	New York	8,175,133	29,298
2.	Chicago	2,695,598	12,061
3.	Philadelphia	1,526,006	11,933
4.	Los Angeles	3,792,621	8,304
5.	Houston	2,099,451	3,599

# Her brother asked which city and states with the highest minimum living wage per hour ?

## code editor

```
1 SELECT
2 city,
3 state,
4 greatest(one_adult_no_kids_living_wage,
5 one_adult_one_kid_living_wage,
6 one_adult_three_kids_living_wage,
7 one_adult_two_kids_living_wage,
8 two_adults_both_working_no_kids_living_wage,
9 two_adults_both_working_one_kid_living_wage,
10 two_adults_both_working_two_kids_living_wage,
11 two_adults_both_working_three_kids_living_wage,
12 two_adults_one_working_no_kids_living_wage,
13 two_adults_one_working_one_kid_living_wage,
14 two_adults_one_working_two_kids_living_wage,
15 two_adults_one_working_three_kids_living_wage) as highest_min_living_wage
16 FROM
17 `qualified-day-328213.customer_data.Living_Wage`
18 order by highest_min_living_wage desc
19 limit 1
```

## Results

Row	city	state	highest_min_living_wage
1	San Jose	California	81.63





Tina’s father has to move to a city which starts with “C” and her parents both working, which cities should they go if her parents have hourly wage 21 and wants population density to be the

lowest  
code editor

```
1 SELECT
2   city,
3   two_adults_both_working_two_kids_living_wage,
4   density
5 FROM
6   `qualified-day-328213.Customer_data.Living_Wage`
7 WHERE
8   city LIKE "C%"
9   AND two_adults_both_working_two_kids_living_wage < 21
10 ORDER BY
11  density
```

Results

Row	city	two_adults_both_working_two_kids_living_wage	density
1	Corpus Christi	19.2	1960
2	Cincinnati	20.55	3976
3	Chandler	19.76	4226
4	Cleveland	20.97	4796



she wonders if she is a college student now and still single without a child, which city would have the lowest living wage ?

code editor

```
1  SELECT
2  city,
3  state,
4  one_adult_no_kids_living_wage,
5  FROM
6  `qualified-day-328213.Customer_data.Living_Wage`
7  ORDER BY
8  one_adult_no_kids_living_wage asc
9
```

Results

Row	city	state	one_adult_no_kids_living_wage
1	El Paso	Texas	12.4



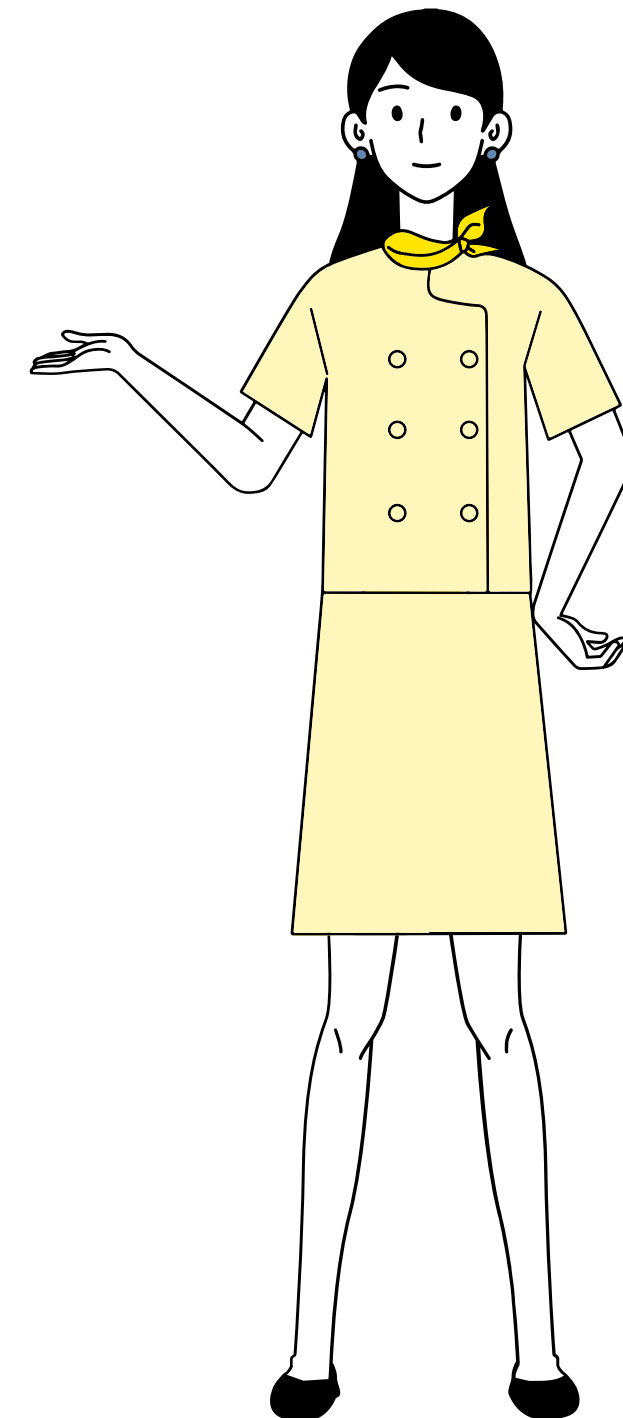
# If Tina goes to college, her mother wants to live either in California or Arizona, how much is the minimum living wage ?

## code editor

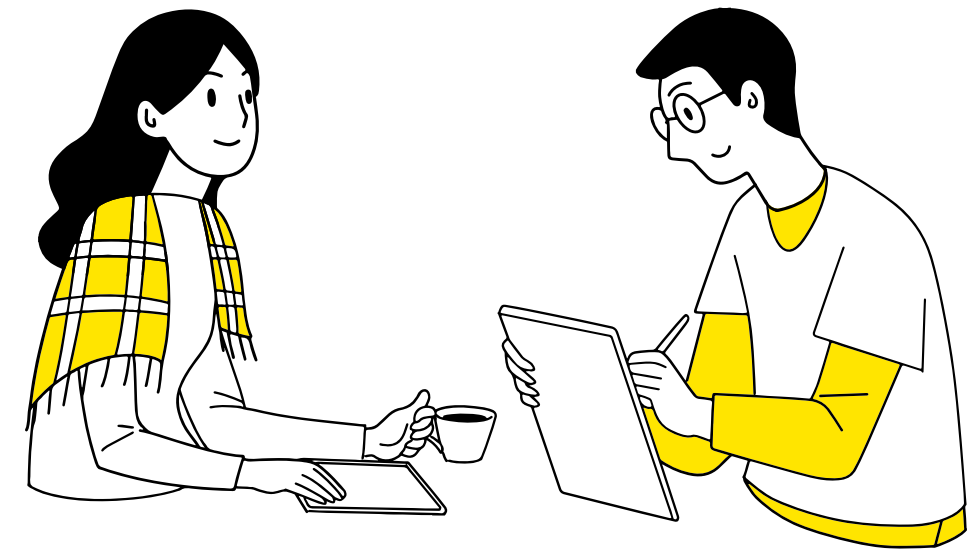
```
1 SELECT
2   city,
3   min(two_adults_both_working_two_kids_living_wage) as Lowest_living_wage,
4 FROM
5   `qualified-day-328213.Customer_data.Living_Wage`
6 where
7   state in ('California','Arizona')
8 group by city
9 limit 1
```

## Results

Row	city	Lowest_living_wage
1	Chandler	19.76

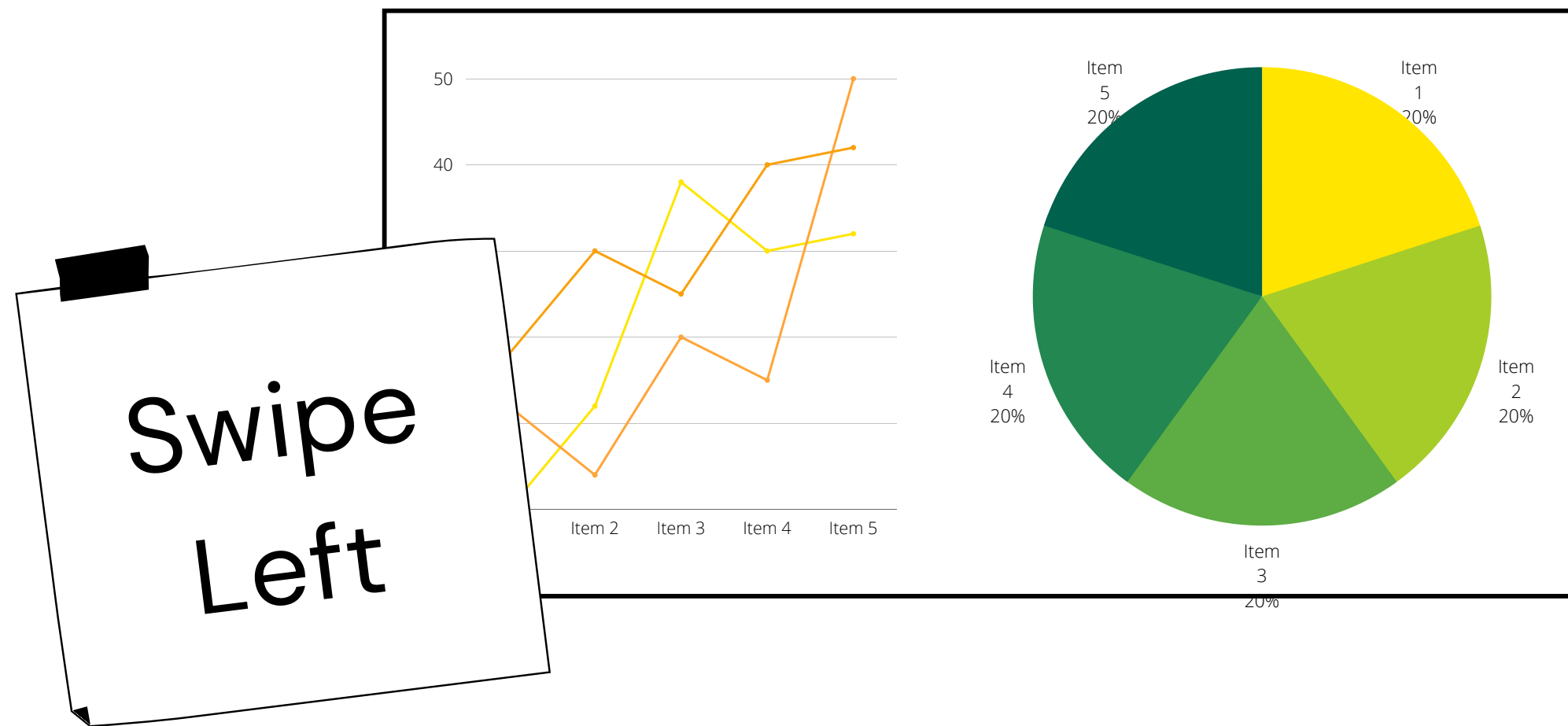


# Conclusion

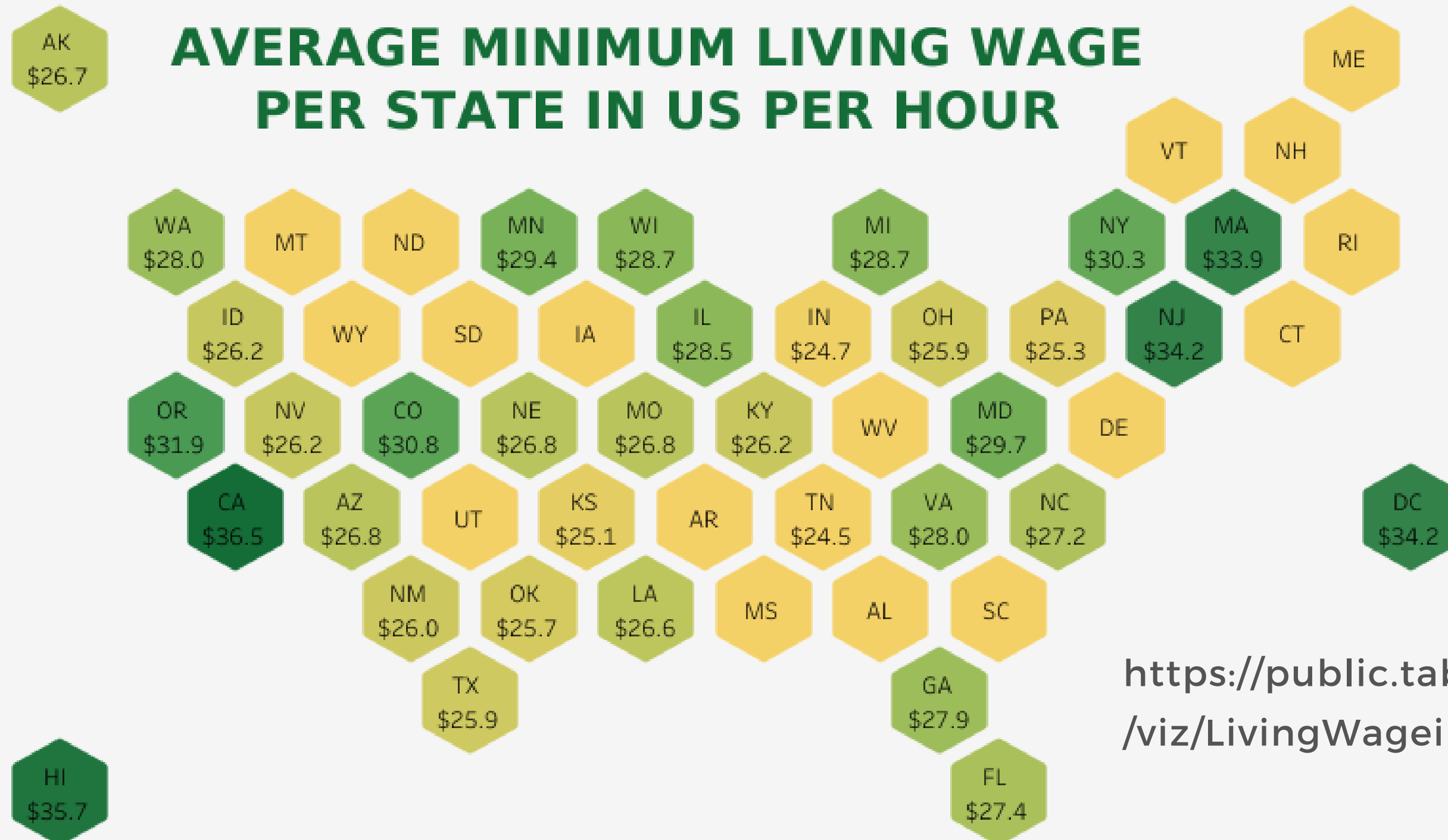


1. Irvine is the city with the highest population growth rate – 44,9%
2. New York is the city with the highest density among the top 5 highest population cities.
3. San Jose in California minimum living wage is the highest with \$81.63 / hour
4. They could go to 4 cities which start with 'C' with living wage below \$21 / hour
5. If Tina an adult without child, she could go to El Paso in Texas with minimum living wage \$12.4 / hour
6. Her family could go to Chandler in Arizona is the lowest possible living wage for 2 adults working with one child with \$19.76 / hour

# III. DASHBOARD

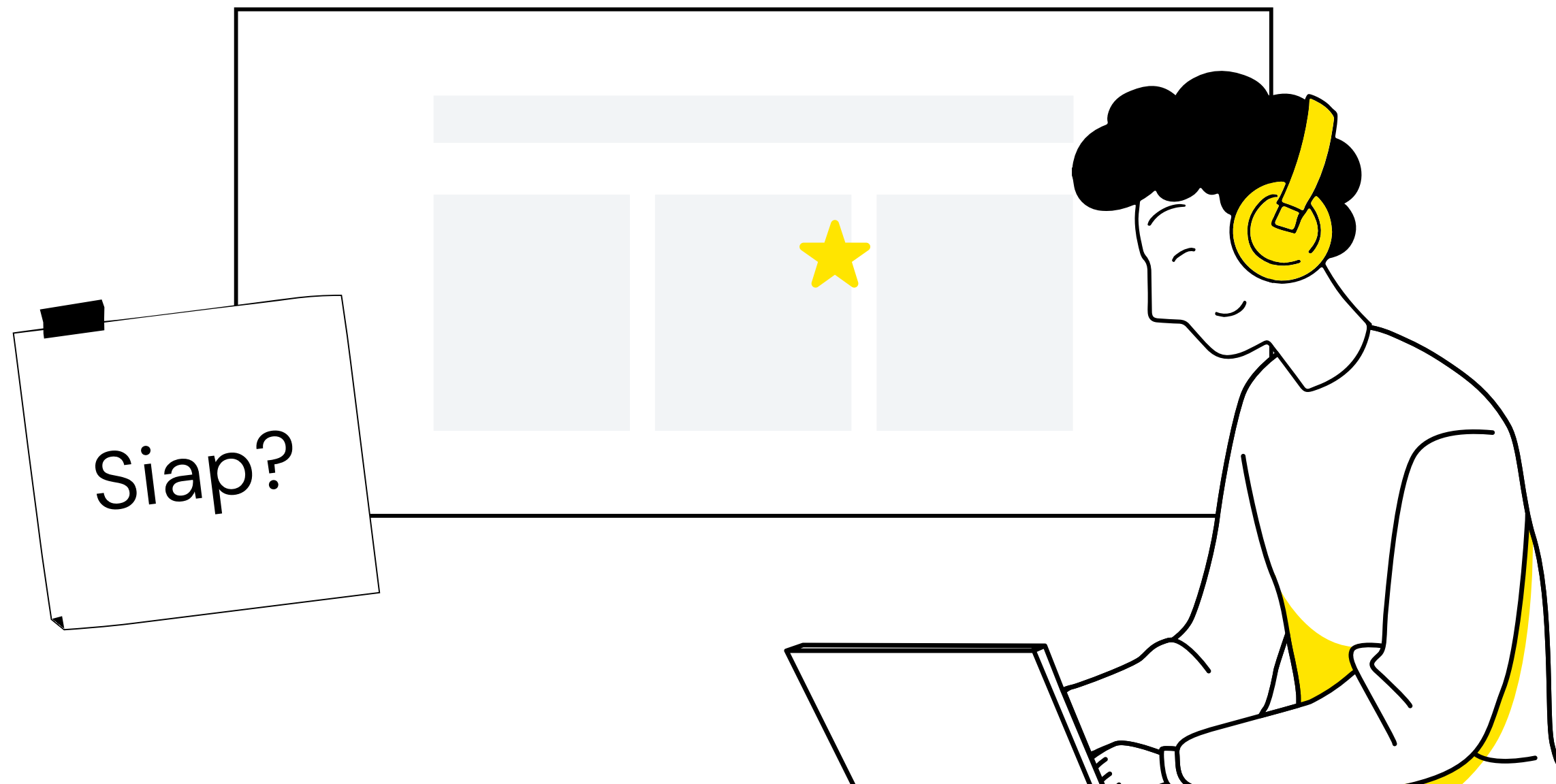


## All



<https://public.tableau.com/app/profile/hadiyanto1102/viz/LivingWageinUS/Dashboard1?publish=yes>

# Next Project



# Campaign Strategy for X Company

- 
- 
- Sales Trend/  
Growth
  - Companies'  
Profits
  - Most  
contributed  
items on sales

**Prepared By : Hadiyanto  
October 2021**



# Objectives

**1**

**Define trends of the Company Sales Revenue**

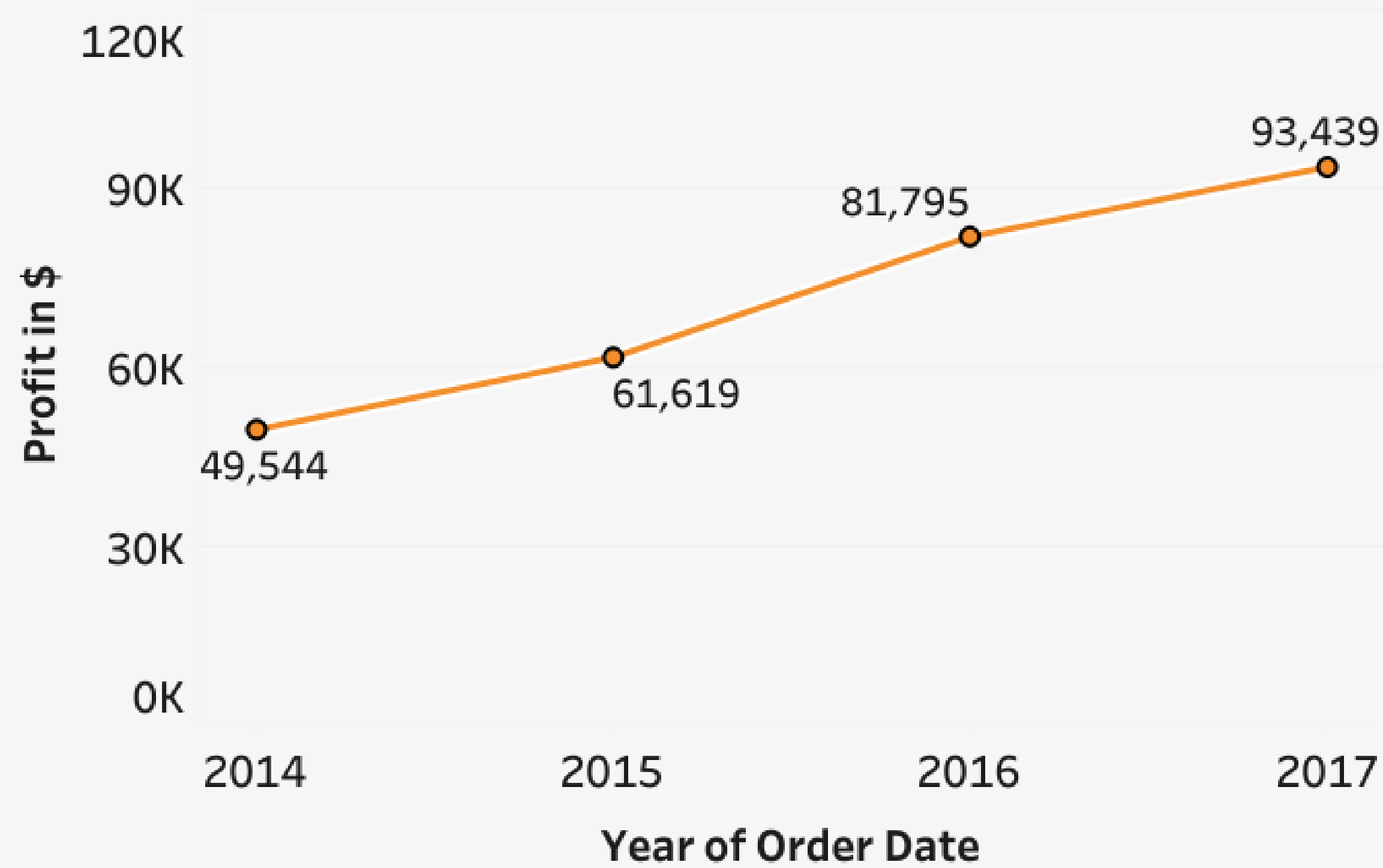
**2**

**Define when the campaign should be focused on**

**3**

**Determine which category the campaign should focus on**

# Profit Sales Over Years

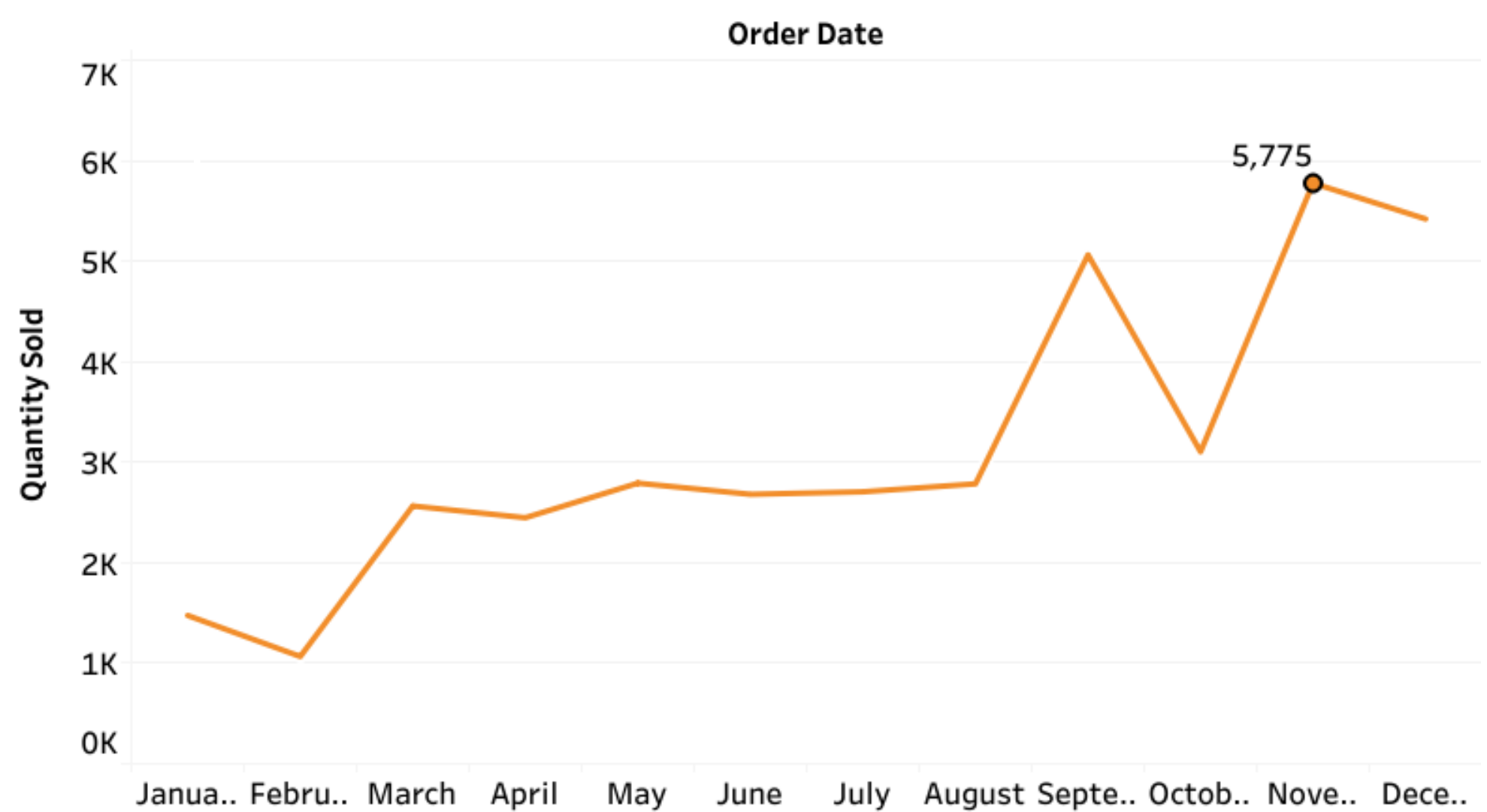


**Upward Trend**

Profit Sales for Online Business have been increased in 4 years

Source : sales recorded in United States from 2014-2017 for X online business

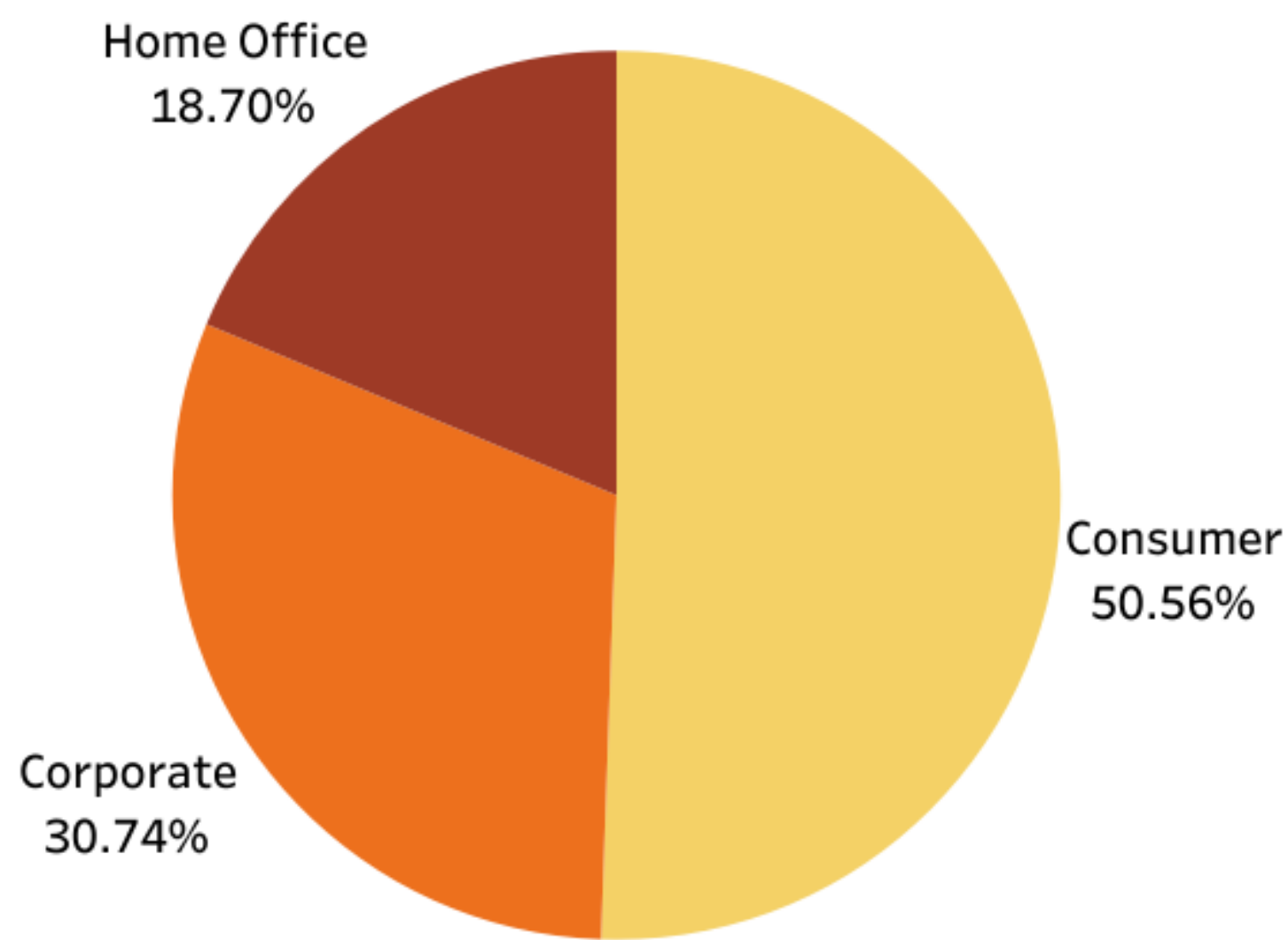
Quantity Sold per Month



*Sales Rocketing on Winter*

Average Quantity sold reach it's peak on November 2014 - 2018

Sales per Segment with Total Sales \$ 2.297.201

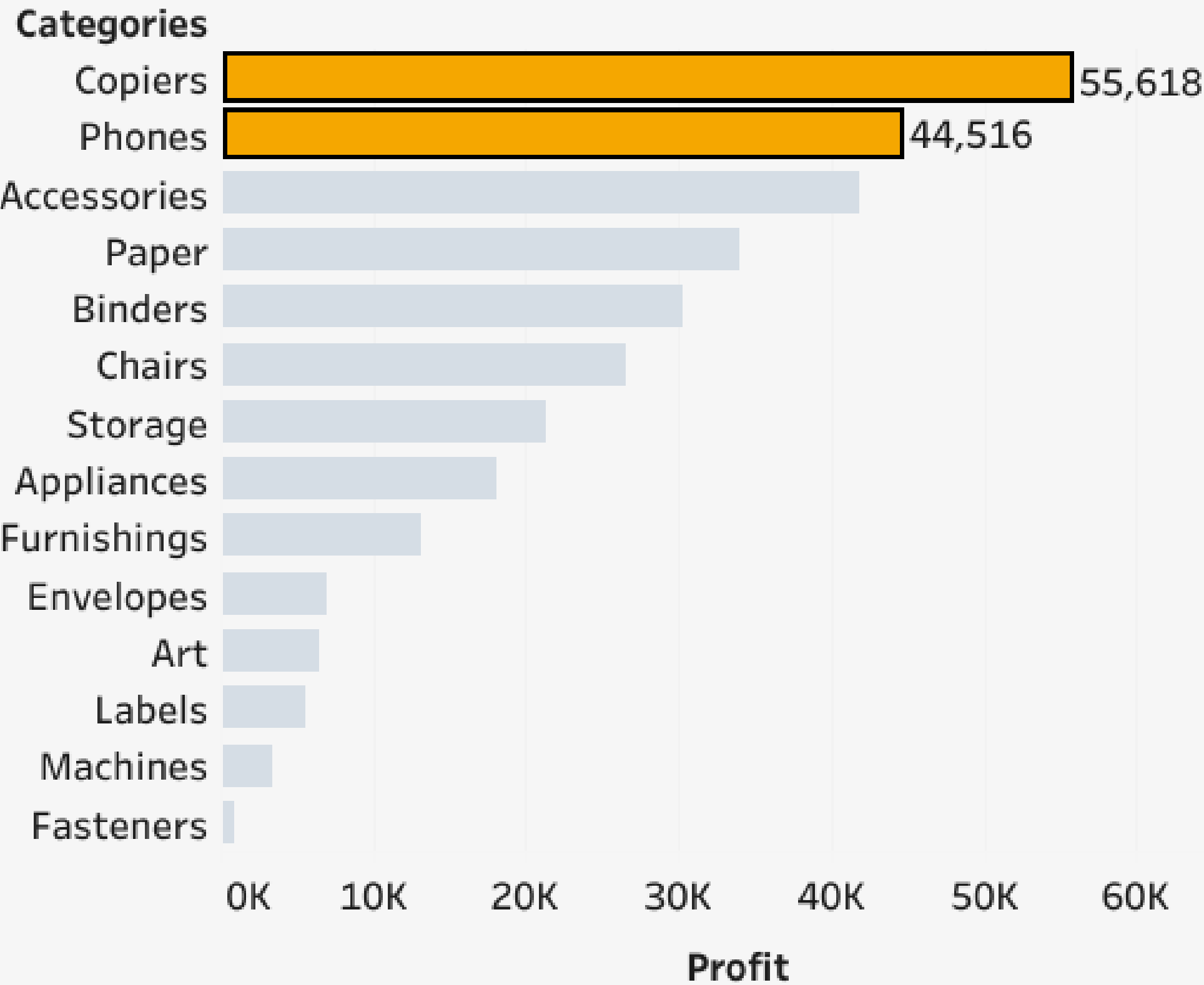


*Consumer dominate segment*

Consumer contribute over \$ 1 million towards X companies' sales

Source : sales recorded in United States from 2014-2017 for X online business

# Total Profits out of 14 Categories



*80/20 Pareto principle*

Roughly, 80% of total sales comes from 20% of the most contributes categories which are Copiers and Phones

Source : sales recorded in United States from 2014-2017 for X online business

# In Summary

1

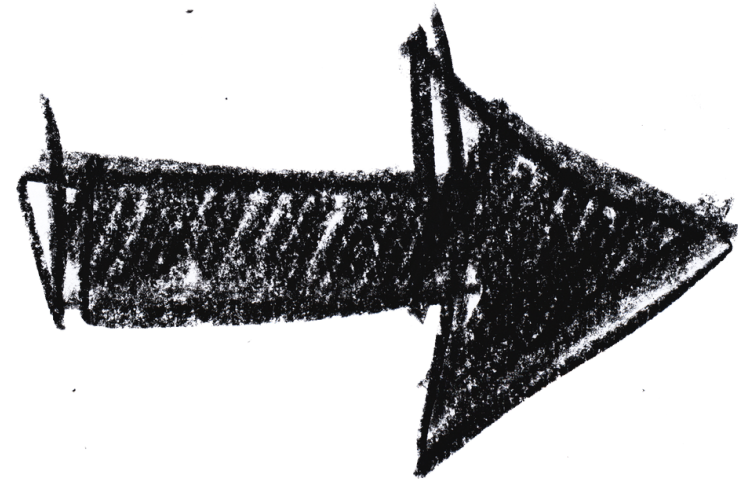
Profit sales of X Companies' increase every year since 2014

2

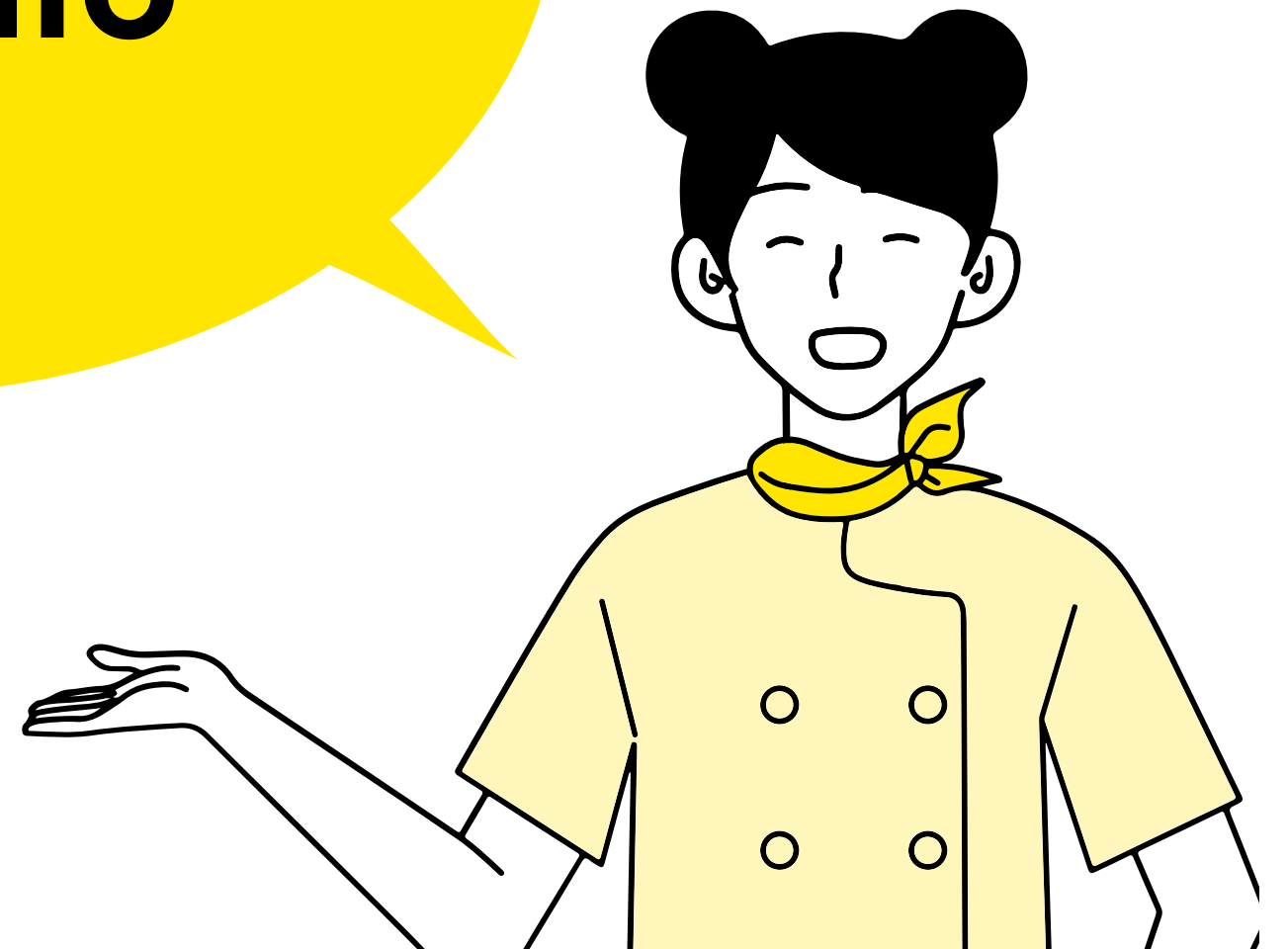
Campaign should be focused on first 3 Months of the calendar year as the first phase

3

The Campaign should focus on Phone and Copiers category based on 80/20 rule principle



# **#3 Portfolio**





...

# ATM Loan and Maintenance Data

Created by : Hadiyanto



# Data Quality

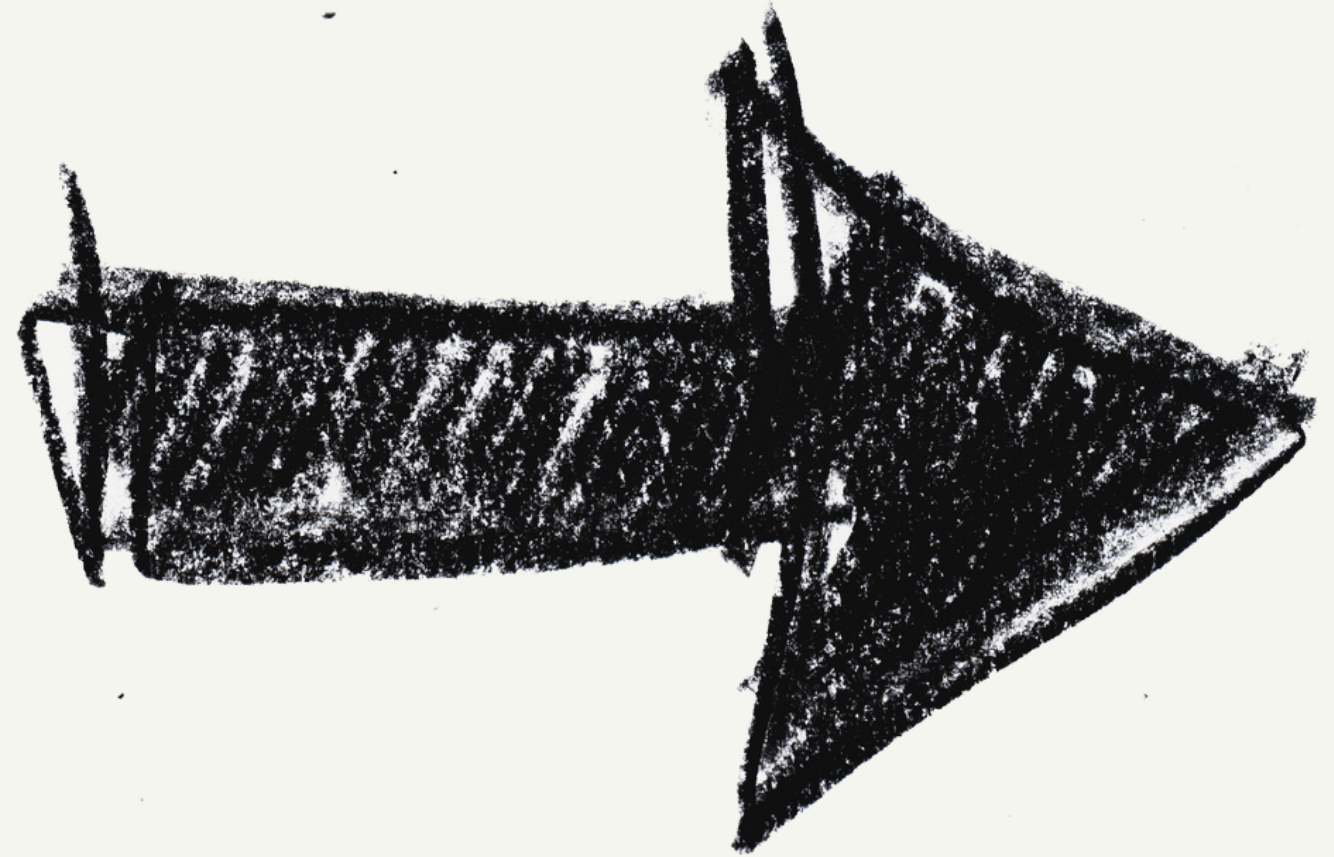


## Loan and Maintenance ATM Dataset

1. Veracity / kualitas dan keakurasian data kurang karena banyak yang tercampur.
2. Data yang tidak ada perlu dilengkapi terlebih dahulu sebelum dilakukan analisis dikarenakan dapat membuat salah analisis, sebagai contoh: No. Tiket, lokasi ATM pada kedua tabel, dan invoice.



# Insights





# ATM Delivered Trend

- Jumlah ATM terendah yang dilakukan pengantaran adalah tahun 2012
- 177 ATM akan diantarkan pada tahun 2021

ATM Delivered Trend

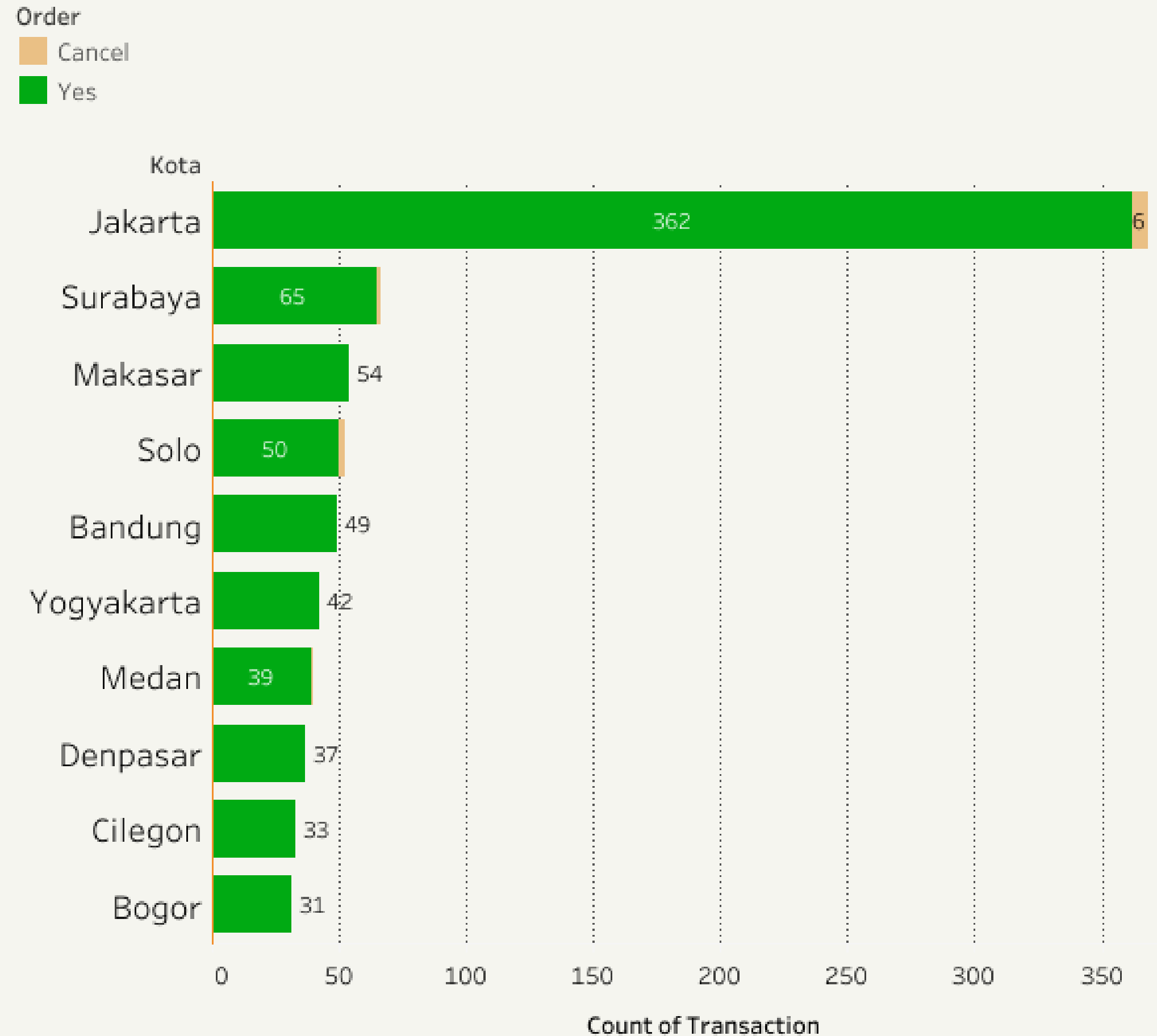




# ATM Loan Per City

Jakarta menjadi Kota

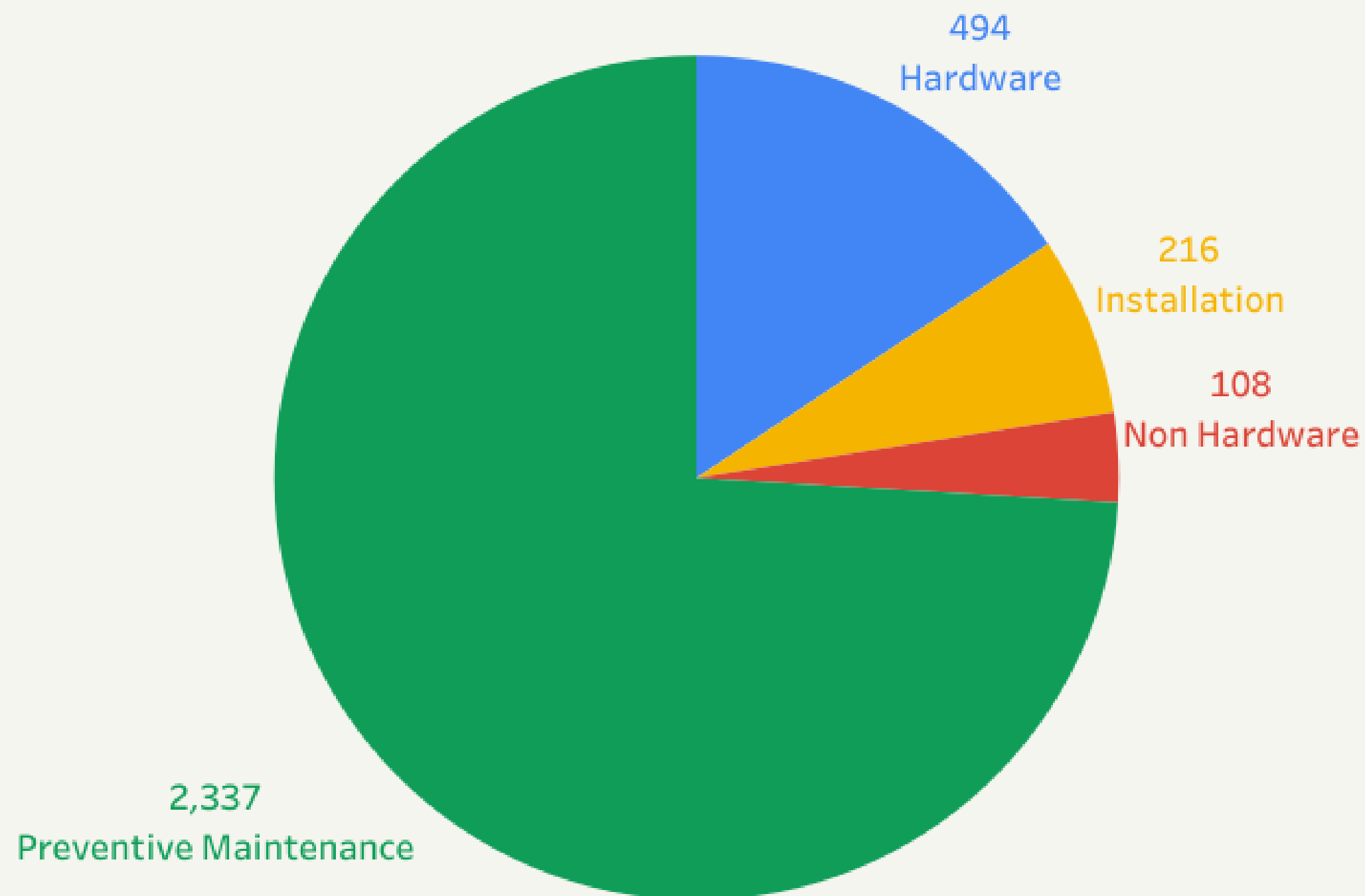
Terbanyak yang menjadi lokasi penempatan ATM





# Problem Report

Preventive Maintenance is mostly the problem of maintenance activity by 74% from 3155 problem reported

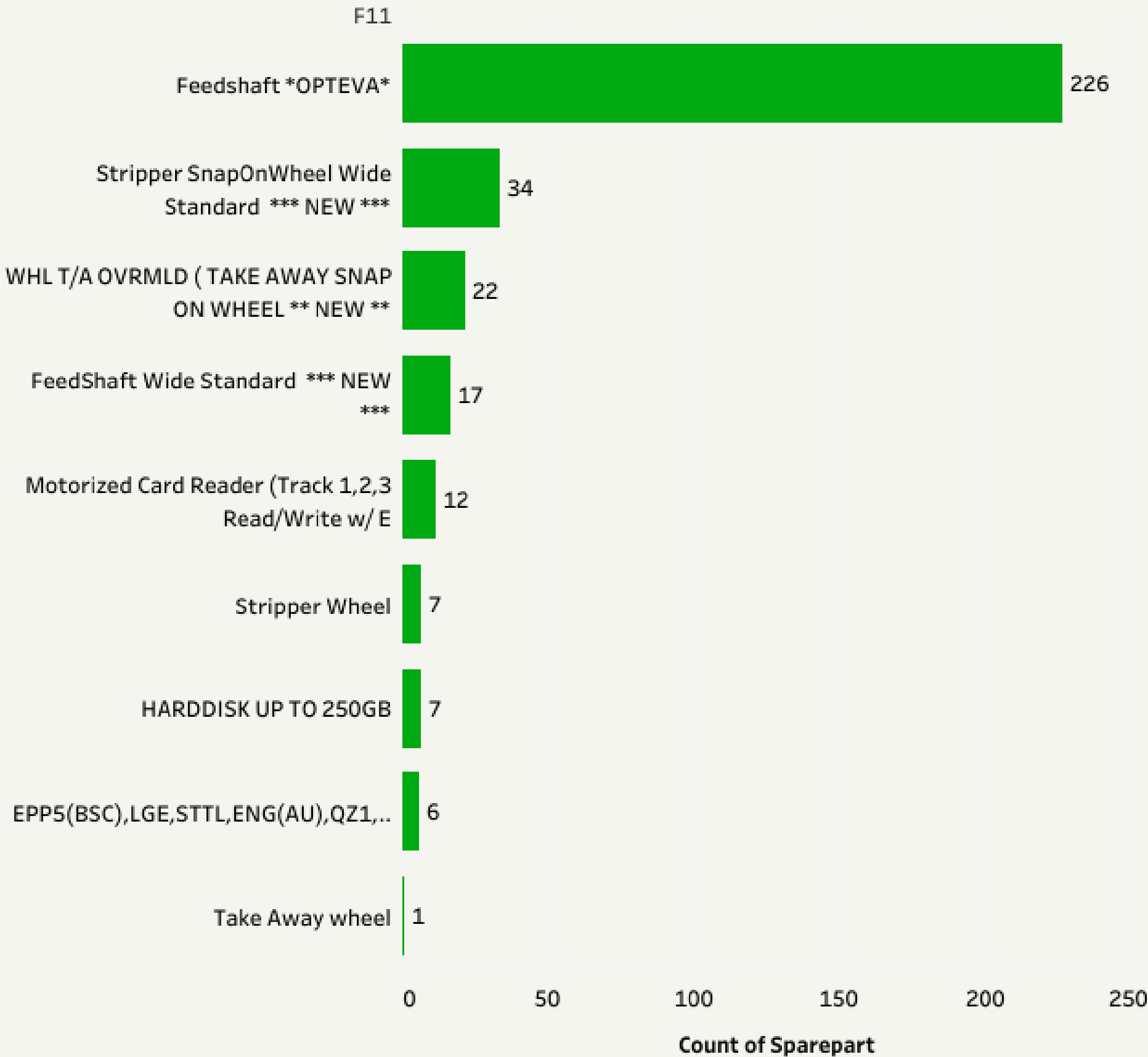




# Sparepart

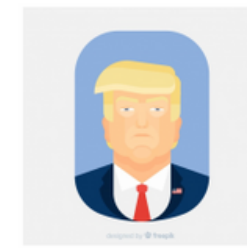
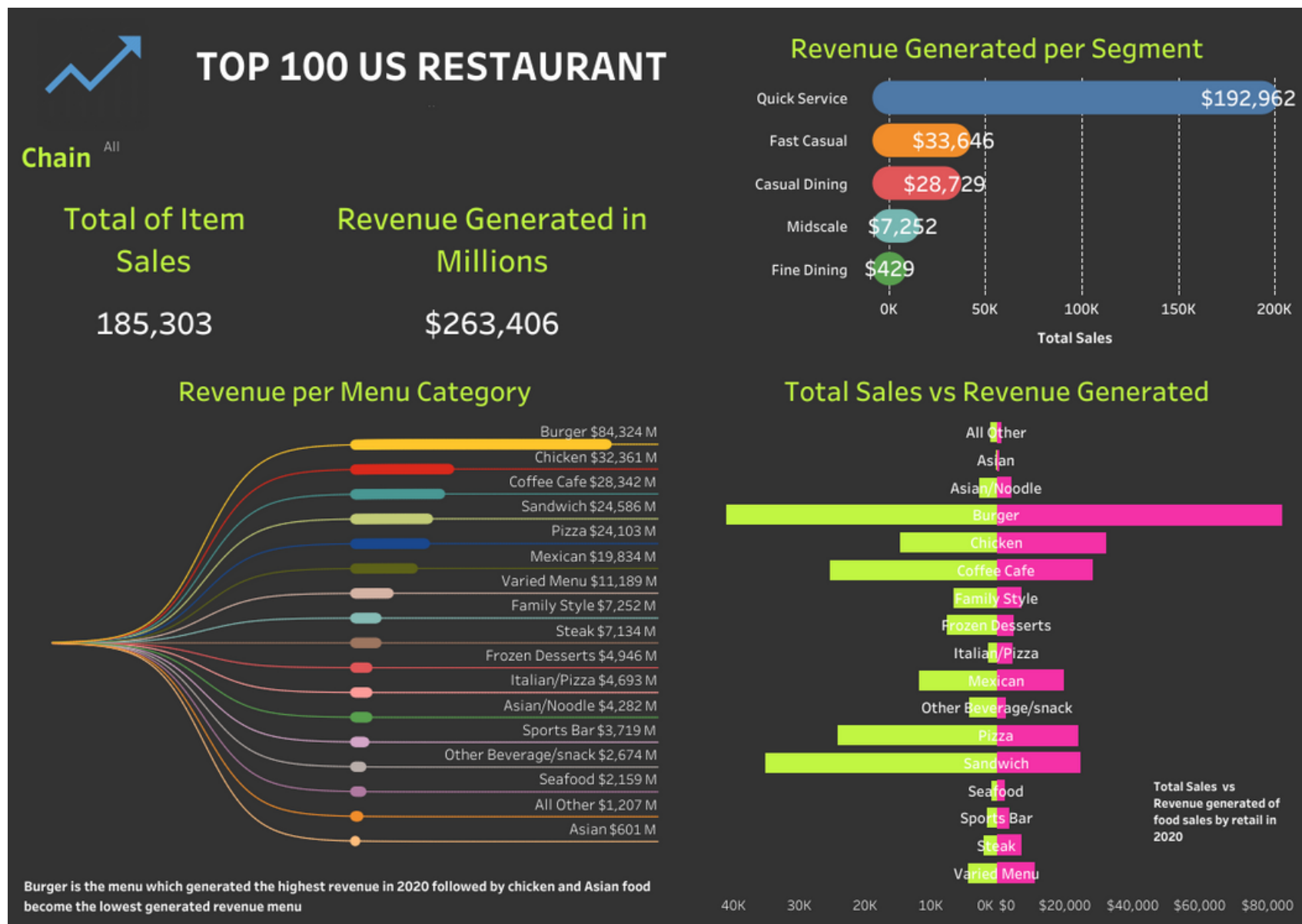
Feedshaft \*OPTEVA\* menjadi sparepart terbanyak yang diinstall pada waktu preventive maintenance

## Top 10 Sparepart Installed during Preventive Maintenance



What do we  
want our user to  
see?

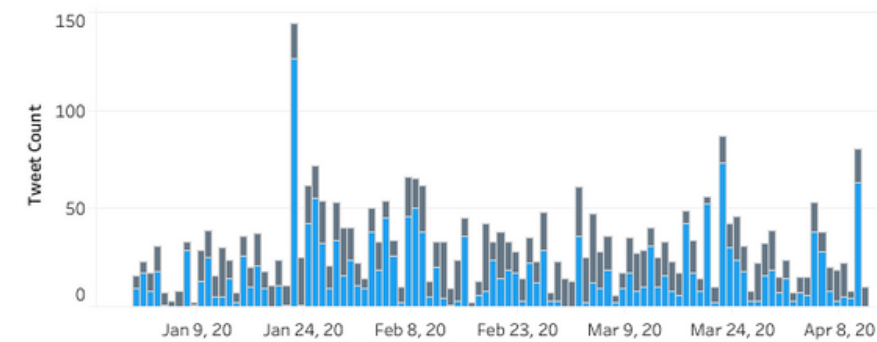
**Next portfolio  
Interactive  
Dashboards**



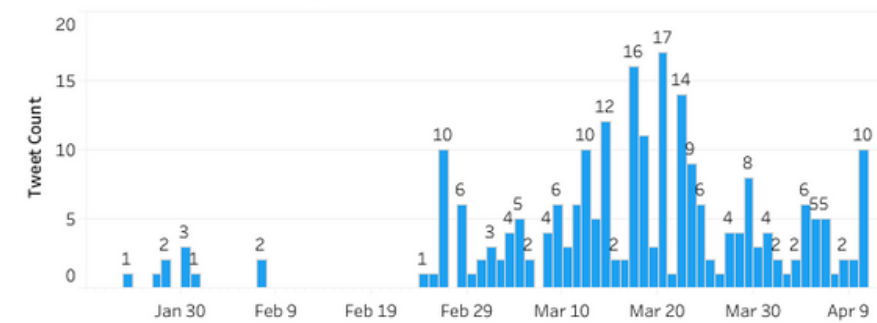
## ANALYZING DONALD TRUMP TWEETS



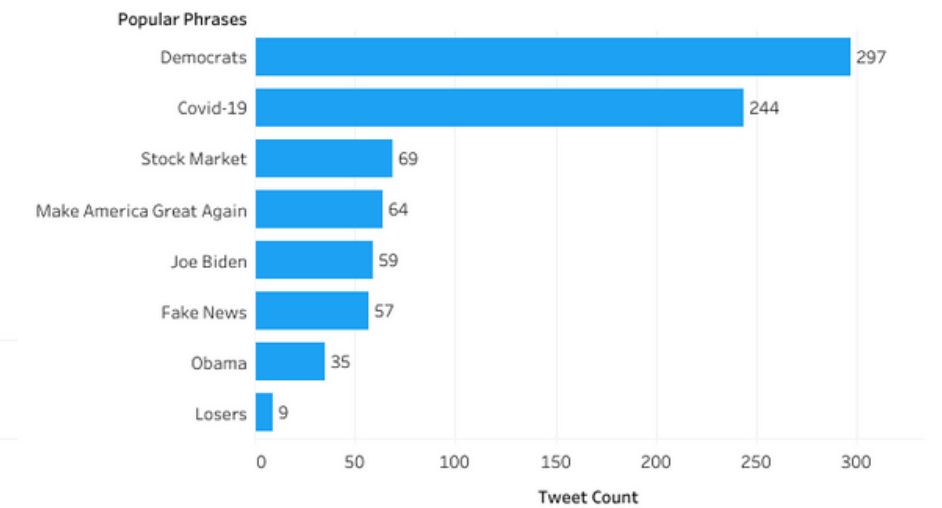
Tweet Since 1st Jan  
Gray: Original, Blue: Retweet



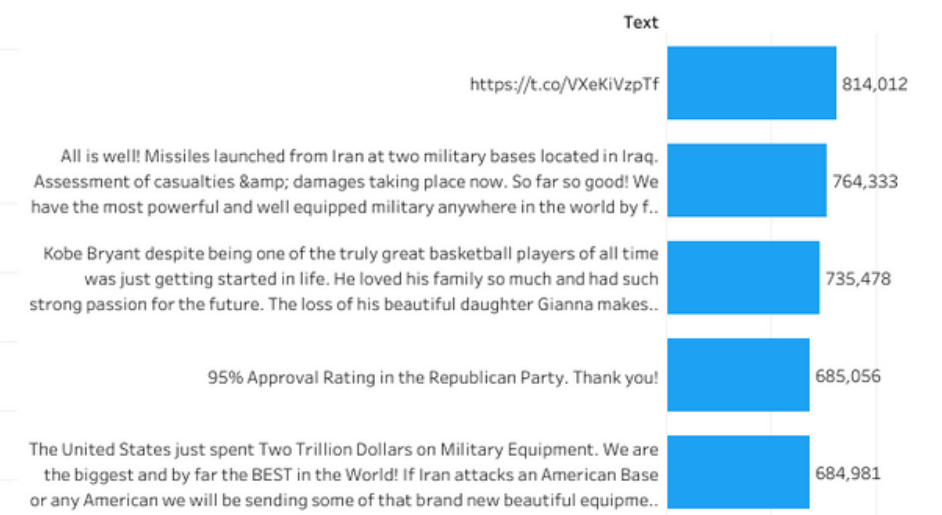
Tweets Mentioning Covid-19  
Gray: Original, Blue: Retweet



## Popular Phrases Used by Trump



## Most Favourite Tweets



Click link for  
other  
interactive  
dashboard



<https://public.tableau.com/app/profile/hadiyanto1102>

# Thank you!

