

# Data analysis of Superstore sales



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# Summary

1

1



## Top by location

Top 5 cities were in the East and West regions and brought 34% of sales

2



## Growth

“Same day” ship mode had the highest CAGR of 40.5%

3



## Category

Average cost of copiers increased more than 2.5 times from 2015 to 2018

4



## Delivery

24 deliveries of “Same day” mode was completed on the next day

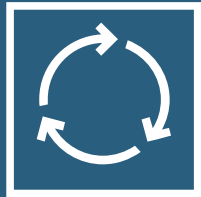
5



## Segment

“Consumer” had more than 50% sales, however CAGR is more than 2 times smaller

# About dataset



## “Context

Retail dataset of a global superstore for 4 years.  
Perform EDA and Predict the sales of the next 7 days from the last date of the Training dataset!”

## “Content

Time series analysis deals with time series based data to extract patterns for predictions and other characteristics of the data. It uses a model for forecasting future values in a small time frame based on previous observations. It is widely used for non-stationary data, such as economic data, weather data, stock prices, and retail sales forecasting.”

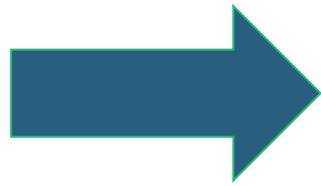


# Dataset

CSV file has 9800 rows of following 18 columns:

1. Row ID
2. Order ID
3. Order Date
4. Ship Date
5. Ship Mode
6. Customer ID
7. Customer Name
8. Segment
9. Country
10. City
11. State
12. Postal Code
13. Region
14. Product ID
15. Category
16. Sub-Category
17. Product Name
18. Sales

It is possible  
to group as  
following



## Order

2. Order ID
3. Order Date
4. Ship Date
5. Ship Mode
18. Sales

## Location

9. Country
10. City
11. State
12. Postal Code
13. Region

## Customer

6. Customer ID
7. Customer Name
8. Segment

## Product

14. Product ID
15. Category
16. Sub-category
17. Product Name

# Report structure

Navigation panel, report consists out of 4 pages:

1. Map
2. KPI
3. Category
4. Customers

“Map” page illustrates sales volumes by locations. It is possible to filter data by category, segment and ship mode filter.

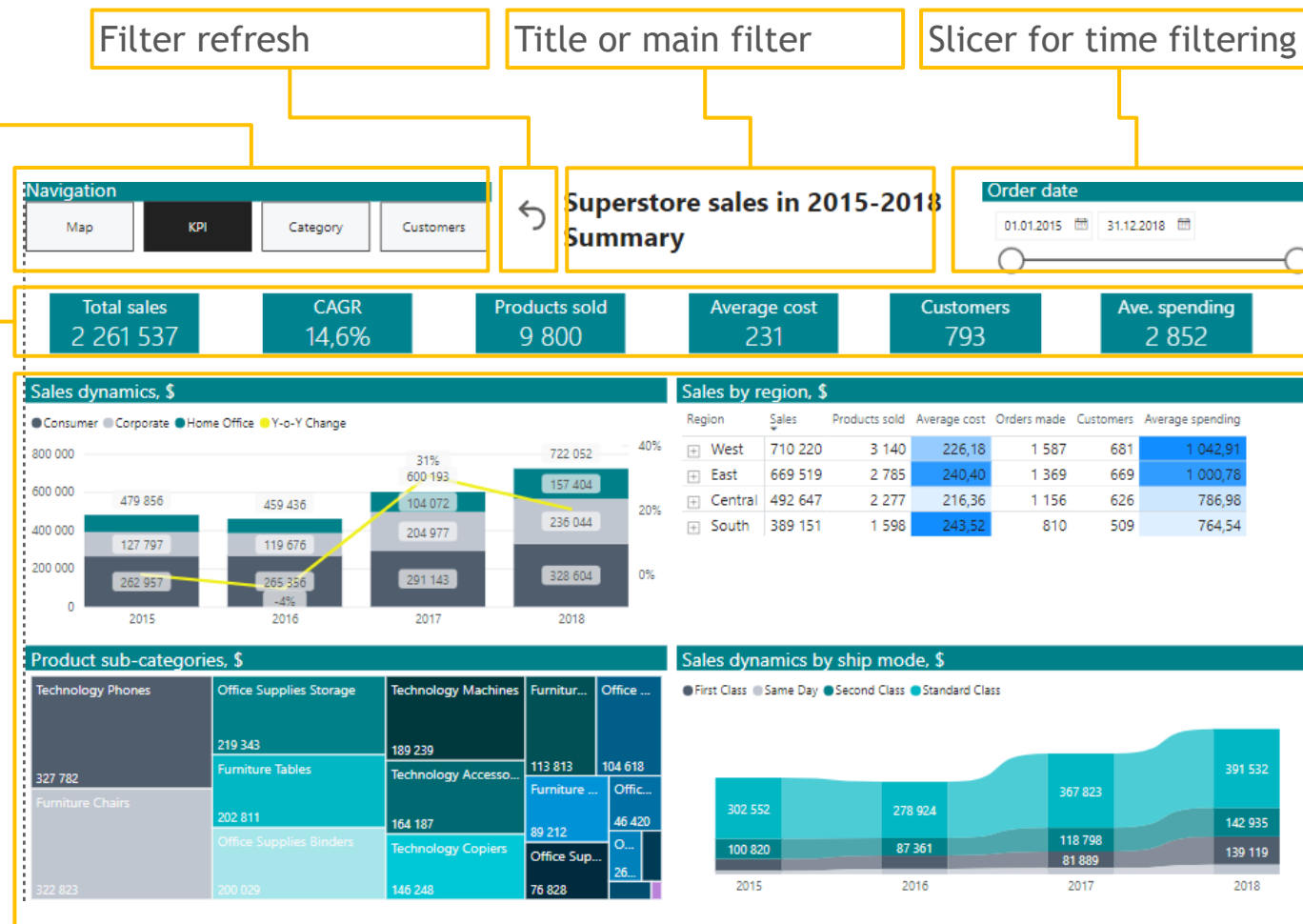
“KPI” page demonstrates main Superstore sales statistics with breakdown by segment, category, location and ship mode.

“Category” page focuses on specific category and its sub-categories.

“Customers” page focuses on segments and their average spendings and waiting time.

KPI cards

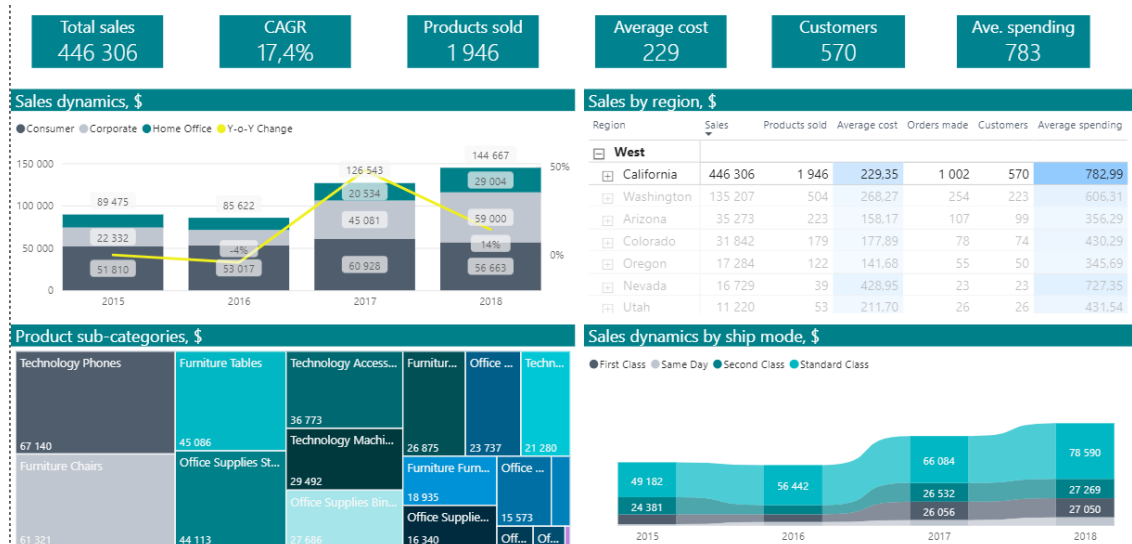
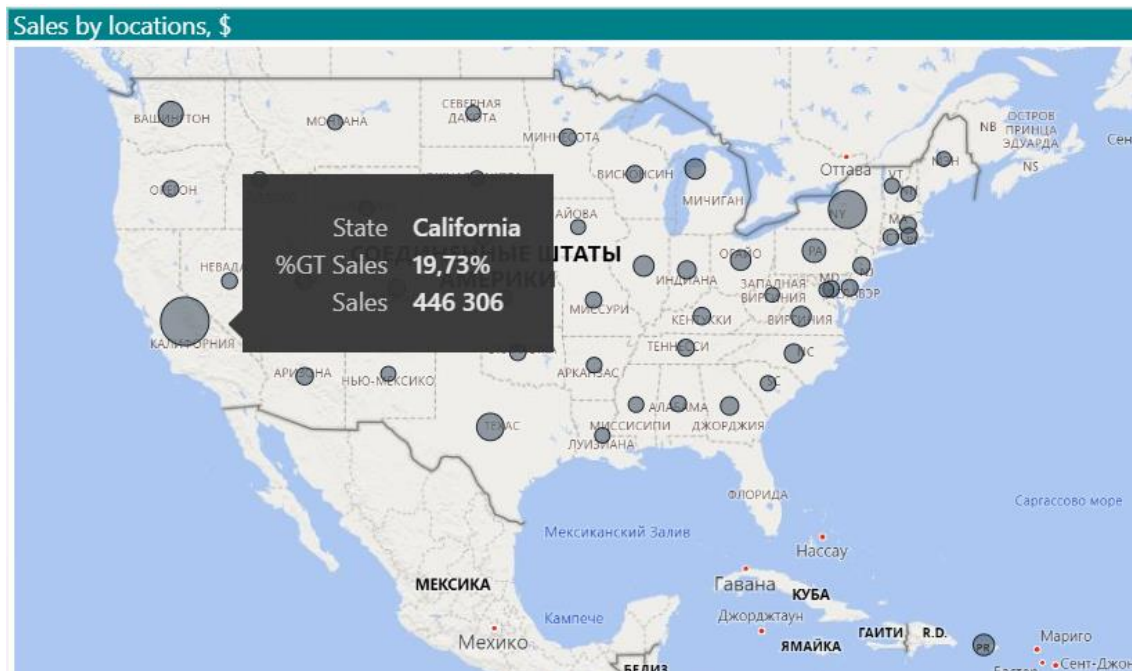
Mutually filtering visualizations



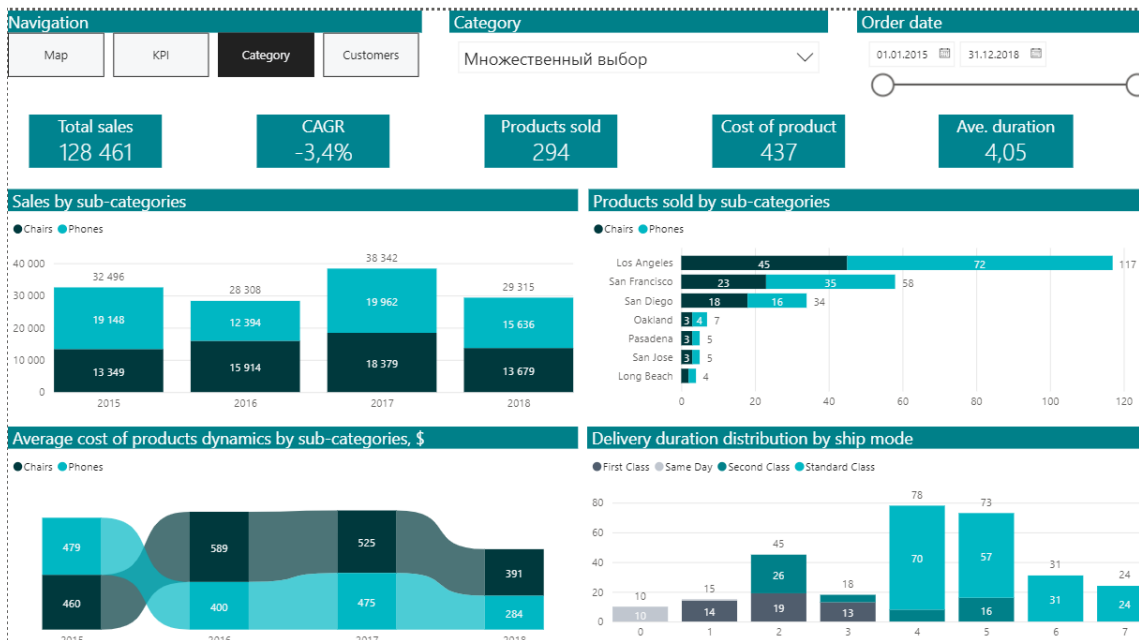
# The top location was selected

California had around 20% of sales

The CAGR of California was higher than the average and was 17.4%



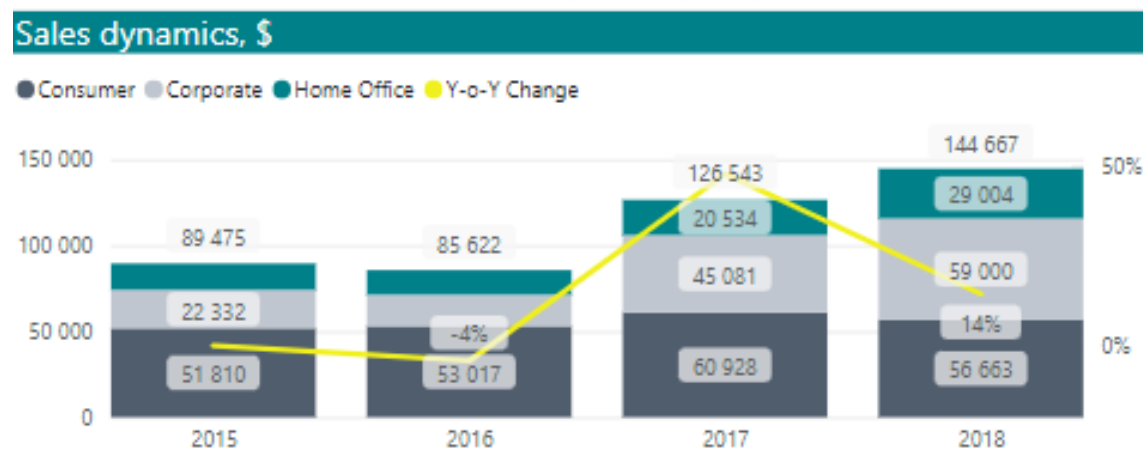
The average cost of chairs become higher than the phone's one in 2016



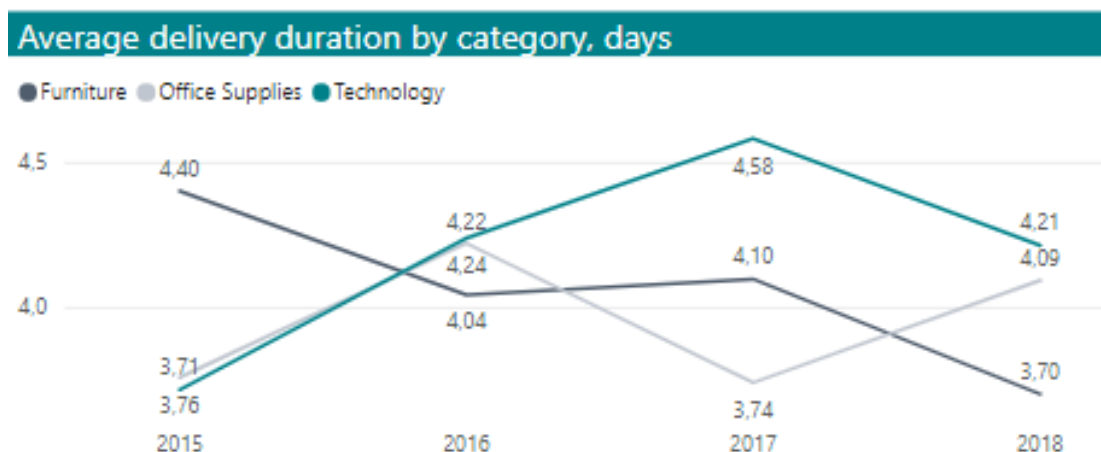


# The deep dive into the segments of California sales

The sales of corporate segment in California increased more than 2.5 times from 2015 to 2018



The average delivery duration of furniture decreased by 0.7 day for corporate segment in California



## Conclusion



Thank you for your attention!

Questions and answers