

Data R'sizlari

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Turkey Food Prices

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Key Takeaways

- ✓ **Dataset:** **Turkey Food Prices** from **WFP**
- ✓ **Analysis:**
 - **Initial:** yearly average **prices by category** and **market**
 - **Exploratory:** yearly average **food prices** in each **category**
- ✓ Overall price increase in 2018
- ✓ Most significant **price changes**:

• Cereals and Tubers	Rice and bread
• Meat, Fish and Eggs	Fresh fish & mutton meat
• Milk and Dairy	Milk powder for infants
• Miscellaneous Food	Cocoa and instant coffee
• Oil and Fats	Olive oil
• Pulses and Nuts	Groundnuts
• Vegetables and Fruits	Cucumbers, eggplants and onions
- ✓ Major **reasons** of price increases:
 - Climate change
 - Natural causes
 - Currency rates crisis
 - Higher demand
 - Insufficient supply
- ✓ Shiny

Dataset

- ✓ **Turkey Food Prices** from **WFP**
- ✓ **52** different kinds of foods
- ✓ **8** main categories
- ✓ **4** markets
- ✓ Data from **May 2013** incl. **4,718** rows & **15** columns.

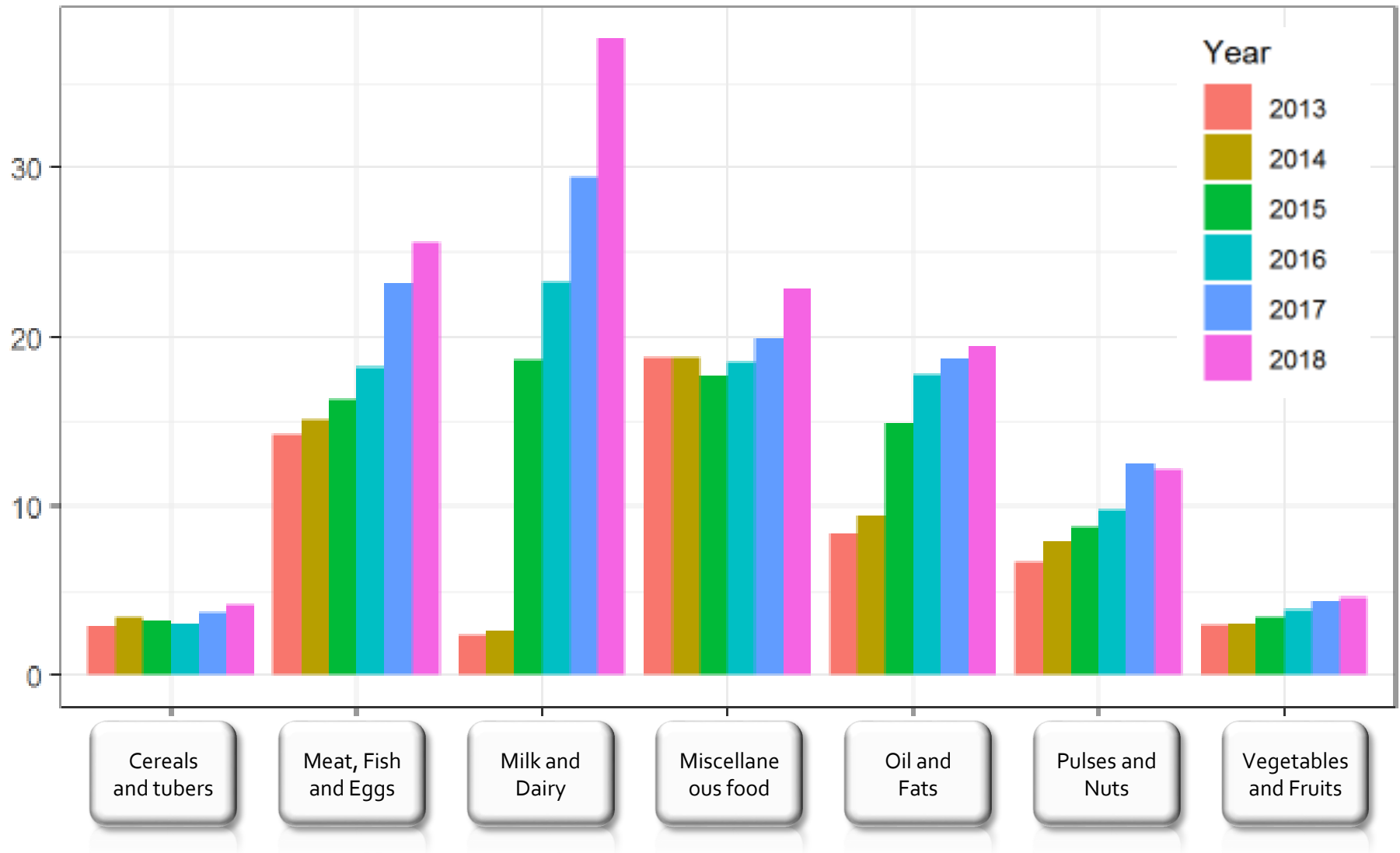
Loading The Data & Data Preprocessing

- ✓ Headline setting, elimination of unnecessary data and format adjustment
- ✓ Creating an organized rds file and uploading it to GPJ

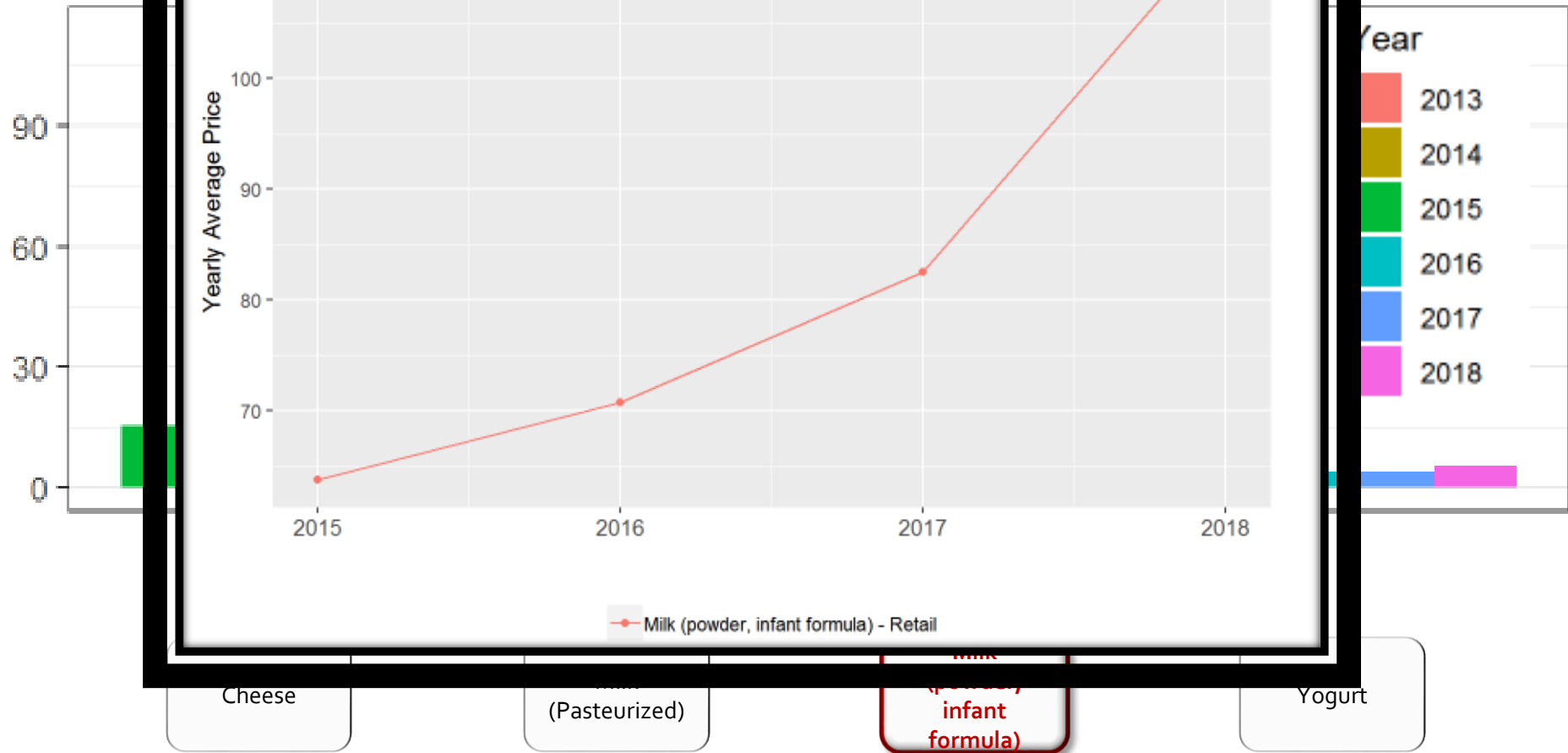
Data Summary after Preprocessing

- ✓ date : Date
- ✓ name : Food name
- ✓ unit : Unit of measure
- ✓ type : Food category
- ✓ value : Food price
- ✓ currency : Curreny (TRY)
- ✓ market : Related market name (Ankara, Istanbul, Izmir and National Average)
- ✓ year : Year
- ✓ month : Month

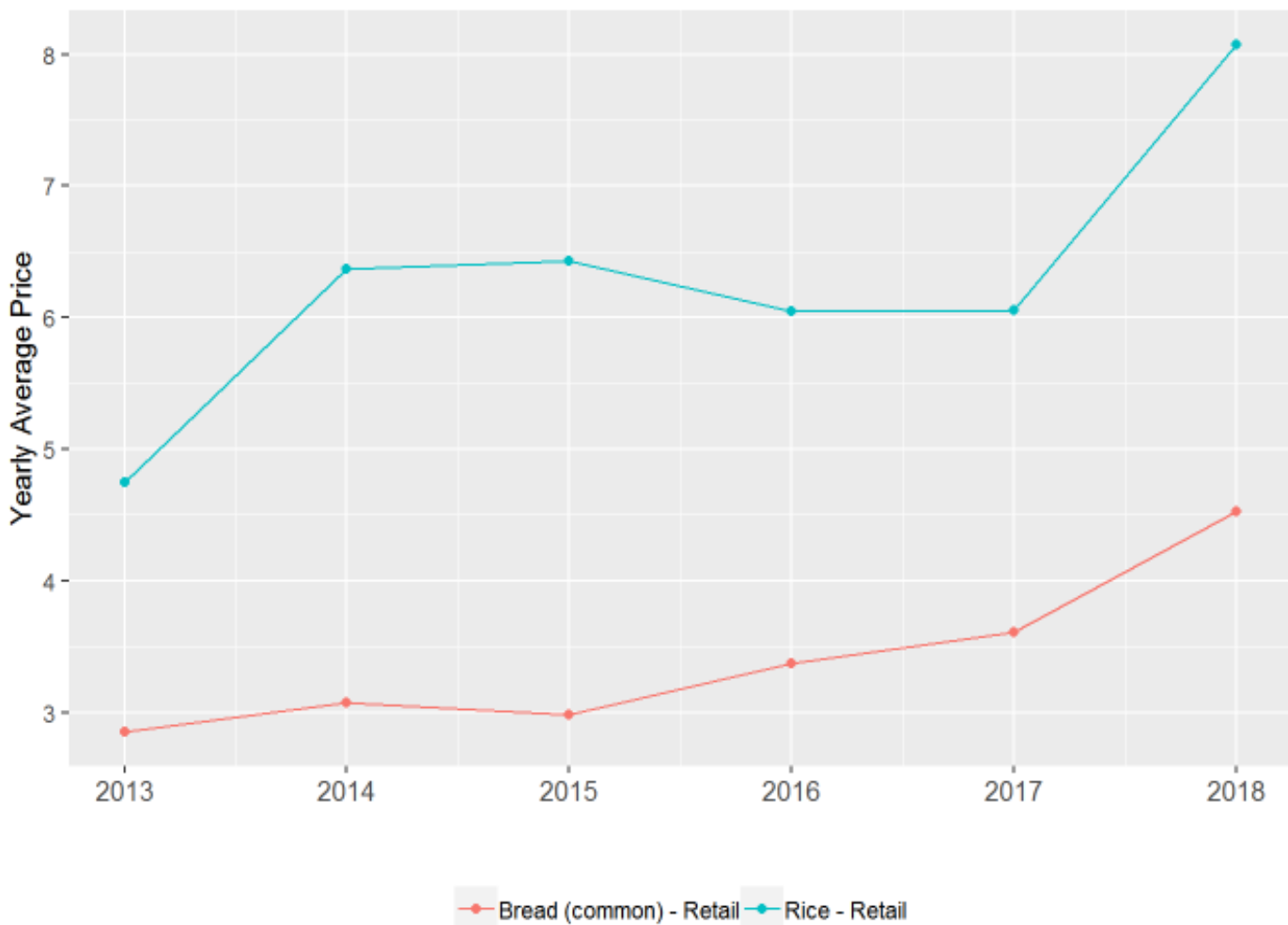
Yearly Average Prices Per Food Type



Yearly Average Price for Milk and Dairy



Social Security



Bread

Bread
(Pita)

Bulgur

Pasta

Potatoes

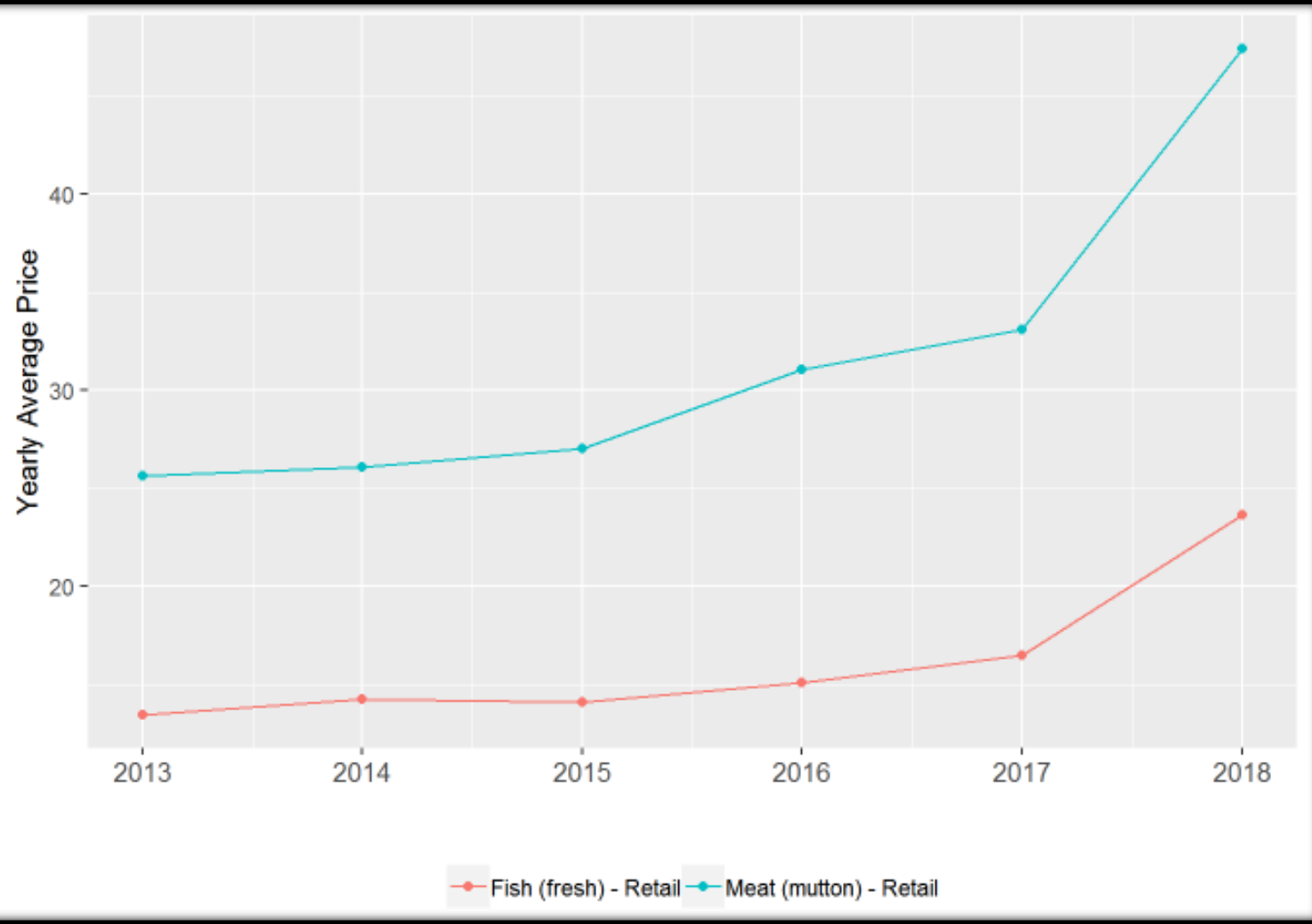
Rice

Wheat
Flour

Exchange Rates ...> Increased
Flour Price

Weather
Conditions ...> Decreased
Supply

Yearly Average Price for Meat, Fish and Eggs



Eggs

Fish
(fresh)

Meat
(chicken)

Meat
(mutton)

Meat (veal)

Exchange
Rates



Increased
Meat & Chicken
Price



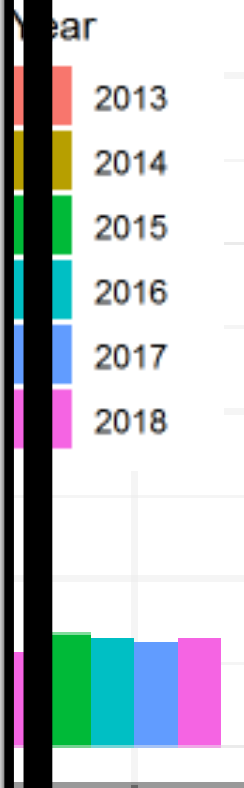
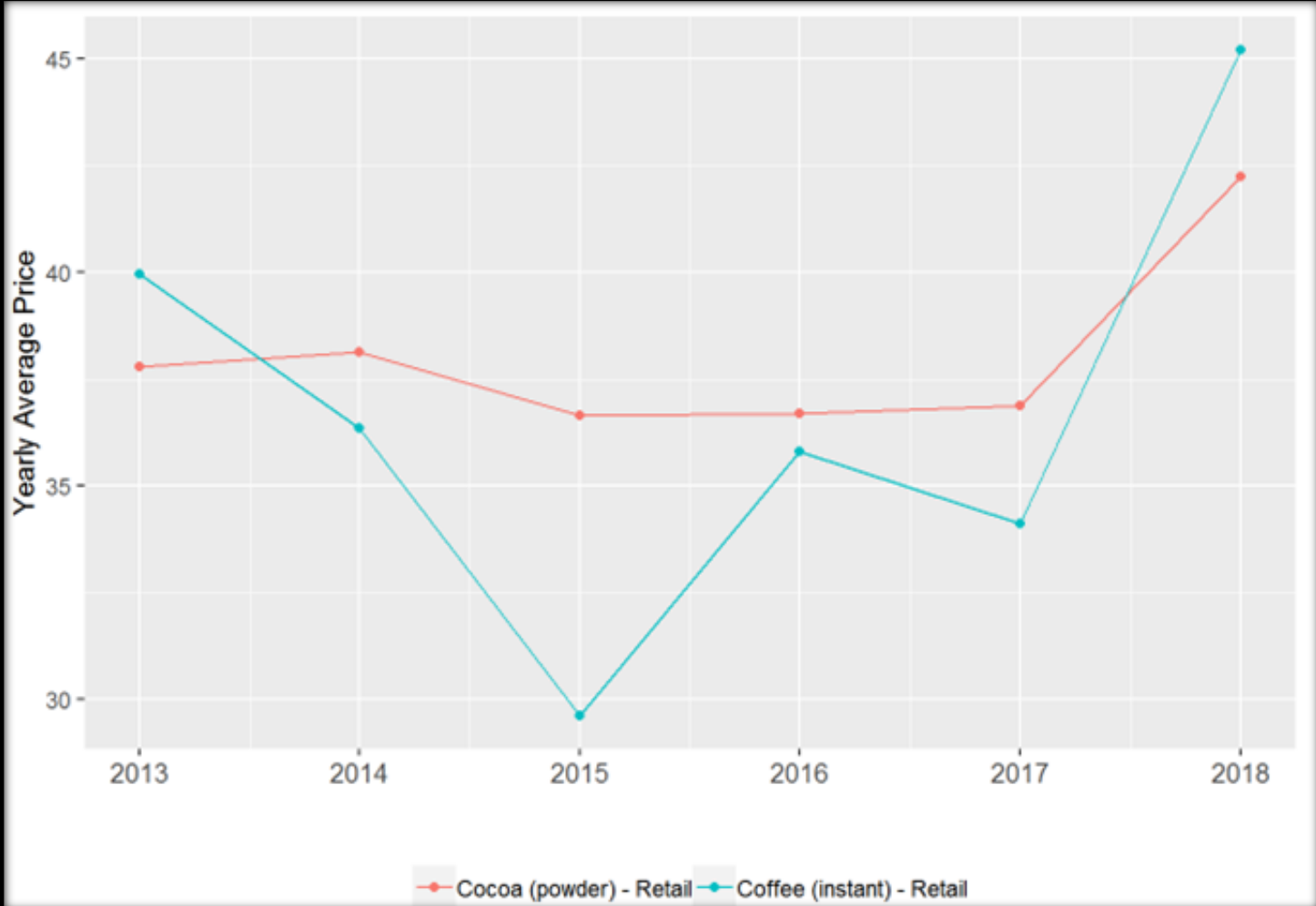
Higher
Demand
for Fish

Weather
Conditions



Decreased
Fish Supply

Yearly Average Price for Miscellaneous Food



Cocoa
(powder)

Coffee
(Instant)

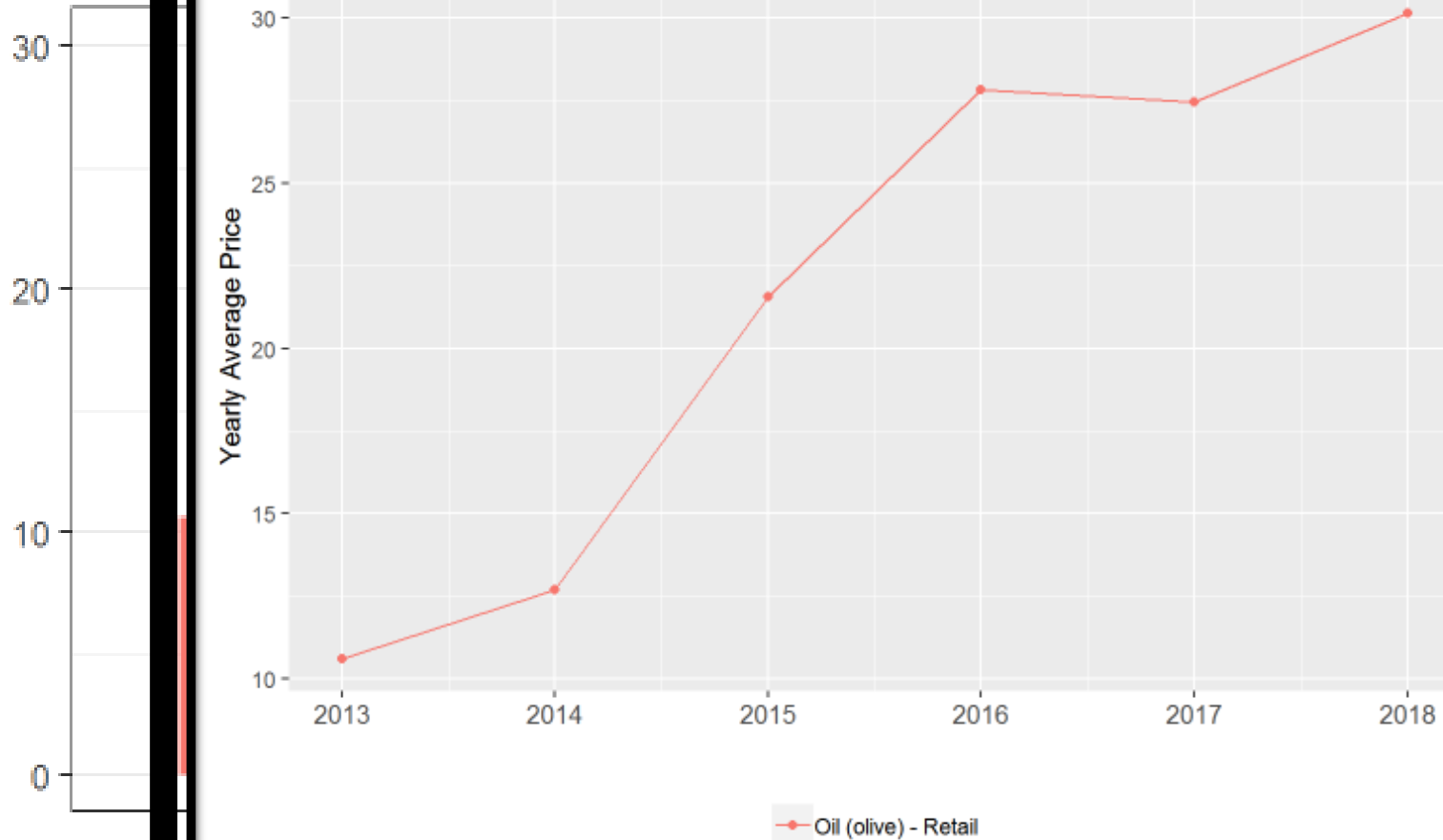
Tea
(Herbal)

Tomatoes
(paste)

Decreased Supply & Increased Demand

Climate Change

Yearly Average Price for Oil and Fats

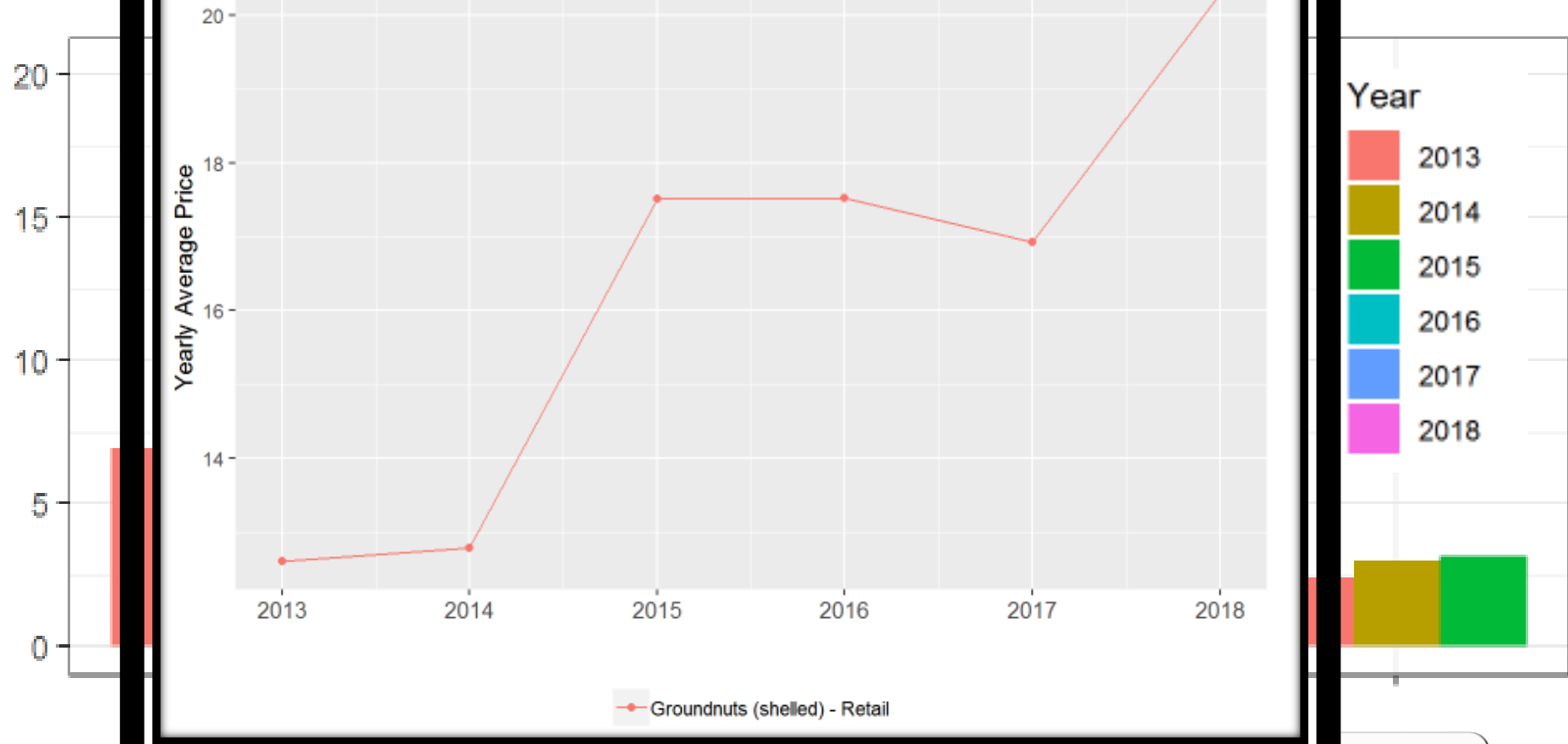


Olive Oil

Sunflower
Oil

Climate Change

Yearly Average Price of Pulses (INR)



Beans

Chickpeas

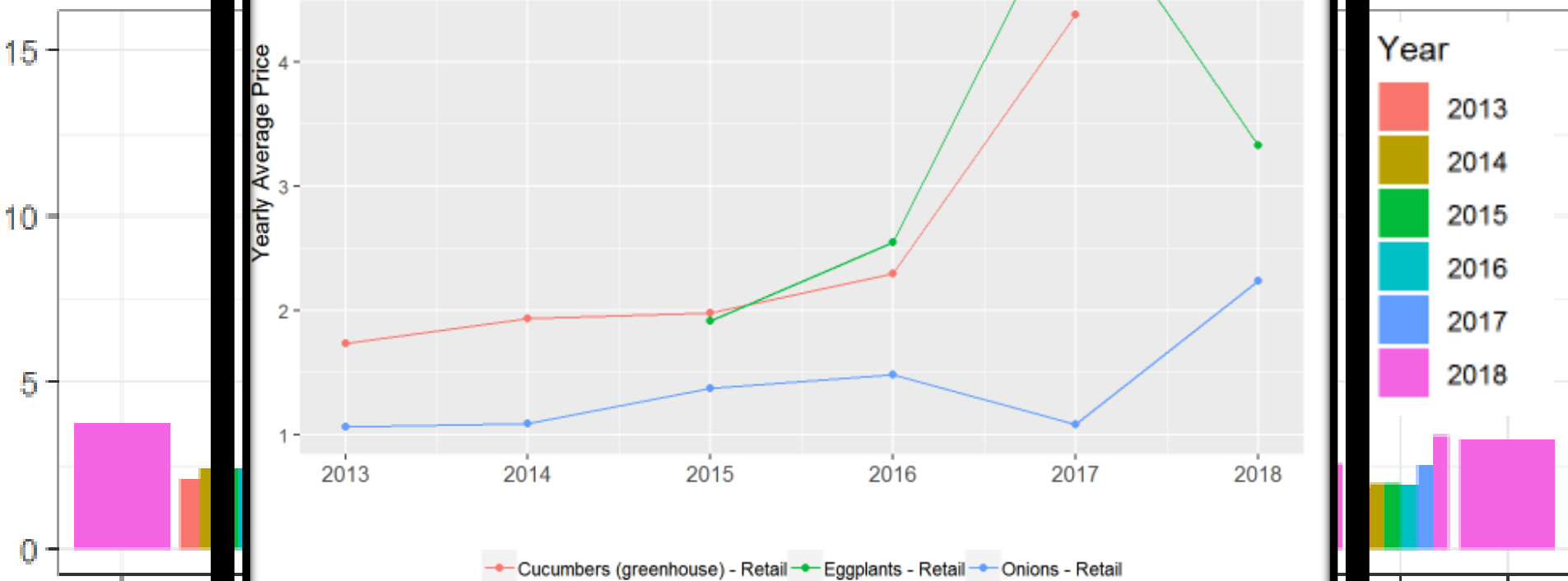
Groundnuts

Lentils

Peas

Lack of
Production

Yearly Average Price



Apples

Bananas

Cabbage

Cauliflower

Cucumbers (greenhouse)

Eggplants

Garlic

Onions

Oranges

Spinach

Tomatoes

Zucchini

Cold Weather

Floods → **Frozen Onions**

Conclusion

In line with our analysis, we can conclude that most of the food prices in Turkey seem to have increasing trends majorly due to:

- **Climate change impact** such as drought, excessive rain fall etc.
- Natural causes such as **pest infestation**
- Current **currency rates crisis**
- **Higher demand** due to increasing population
- **Insufficient supply** as oppose to high demand
- **Price changes** all over the world, especially **for imported ones**

In addition, we can say that 2018 food prices in Turkey have increased overall with a few exceptions in line with the reasons explained above.