

SALES **ANALYSIS**

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OVERVIEW

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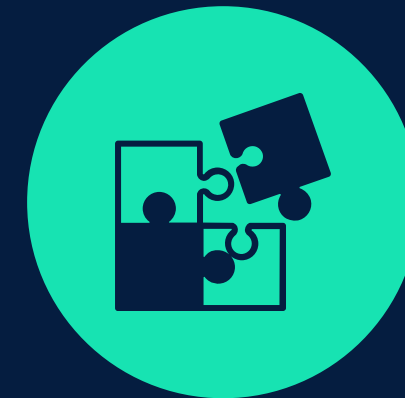
RECOMMANDATIONS

01 OBJECTIVES



DEVELOP METRICS

1. Price per unit
2. Average unit sales price
3. % gross profit daily
4. % gross profit per unit
5. 3 periods when product is on promotion



ABOUT THE DATA

The data contains no null values, and there are 1054 distinct rows.

02



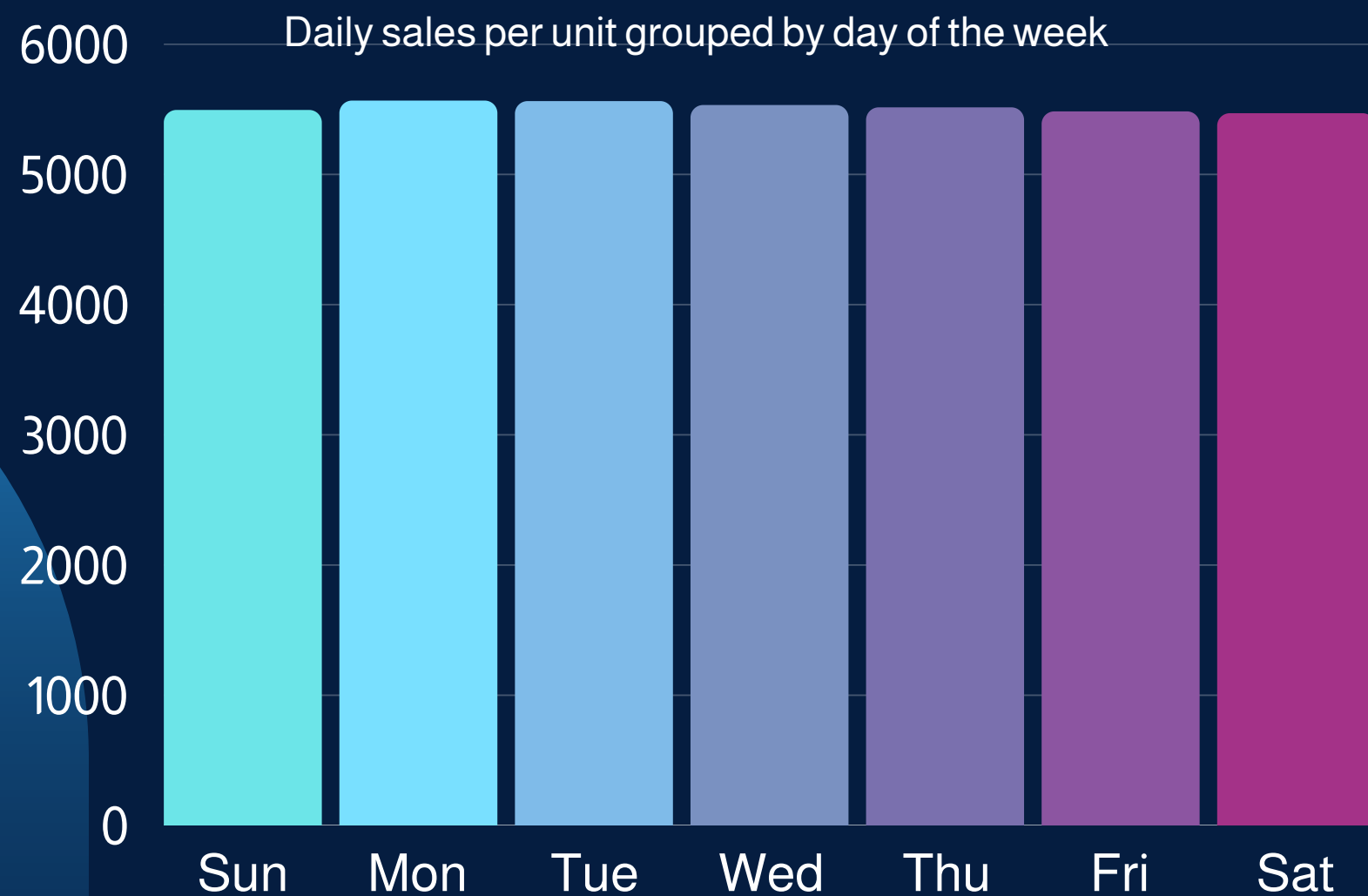
TIMELINE

THE TIME-FRAME IS BETWEEN 2013-DECEMBER-30
TO 2016-NOVEMBER-16 WITH ABOUT 1053 DAYS.

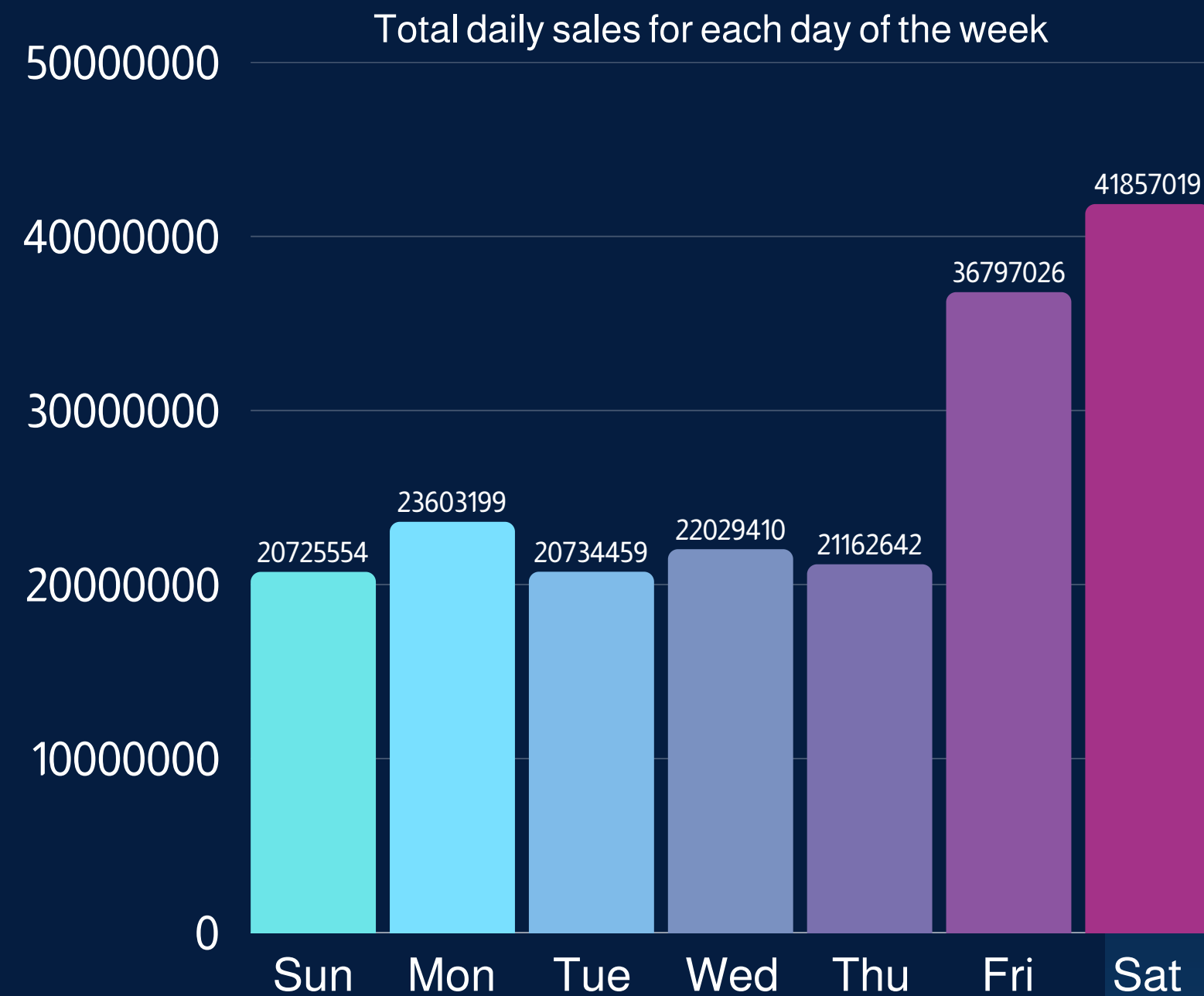
03

DAILY SALES

- Total daily sales for each day of the week with Saturday being the highest.
- Since the dataset goes over many years, the approach is to narrow it down by looking at days of the week, monthly, and years.



- On average the sales per unit are consistent to each other throughout the week.
- This also indicates that Saturday makes the most revenue because more products are sold rather than that the price per unit is higher.



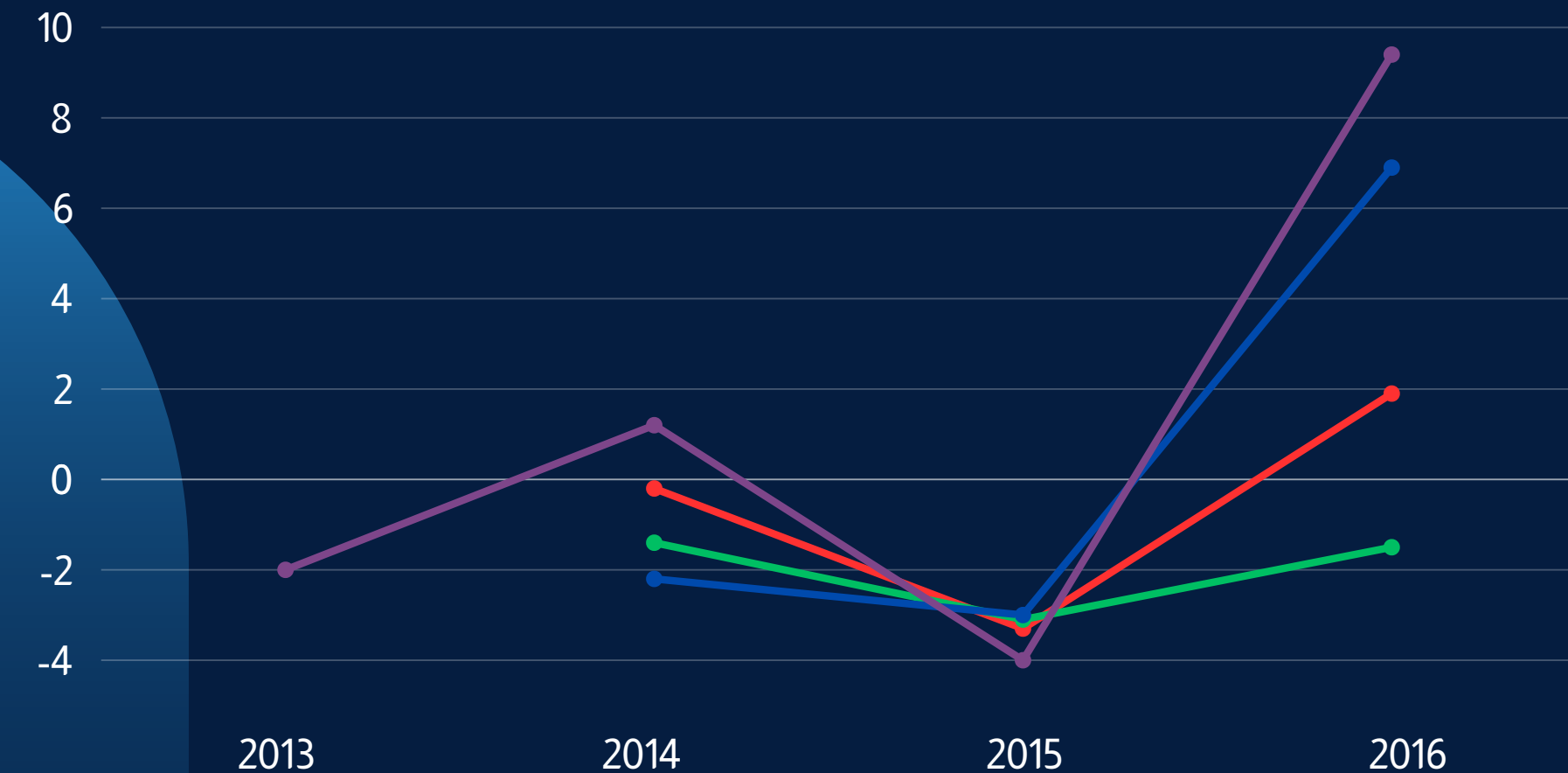
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AVERAGE DAILY PERCENTAGE

- This insights aims to show the relationship between the price per unit and gross profit using a percentage.

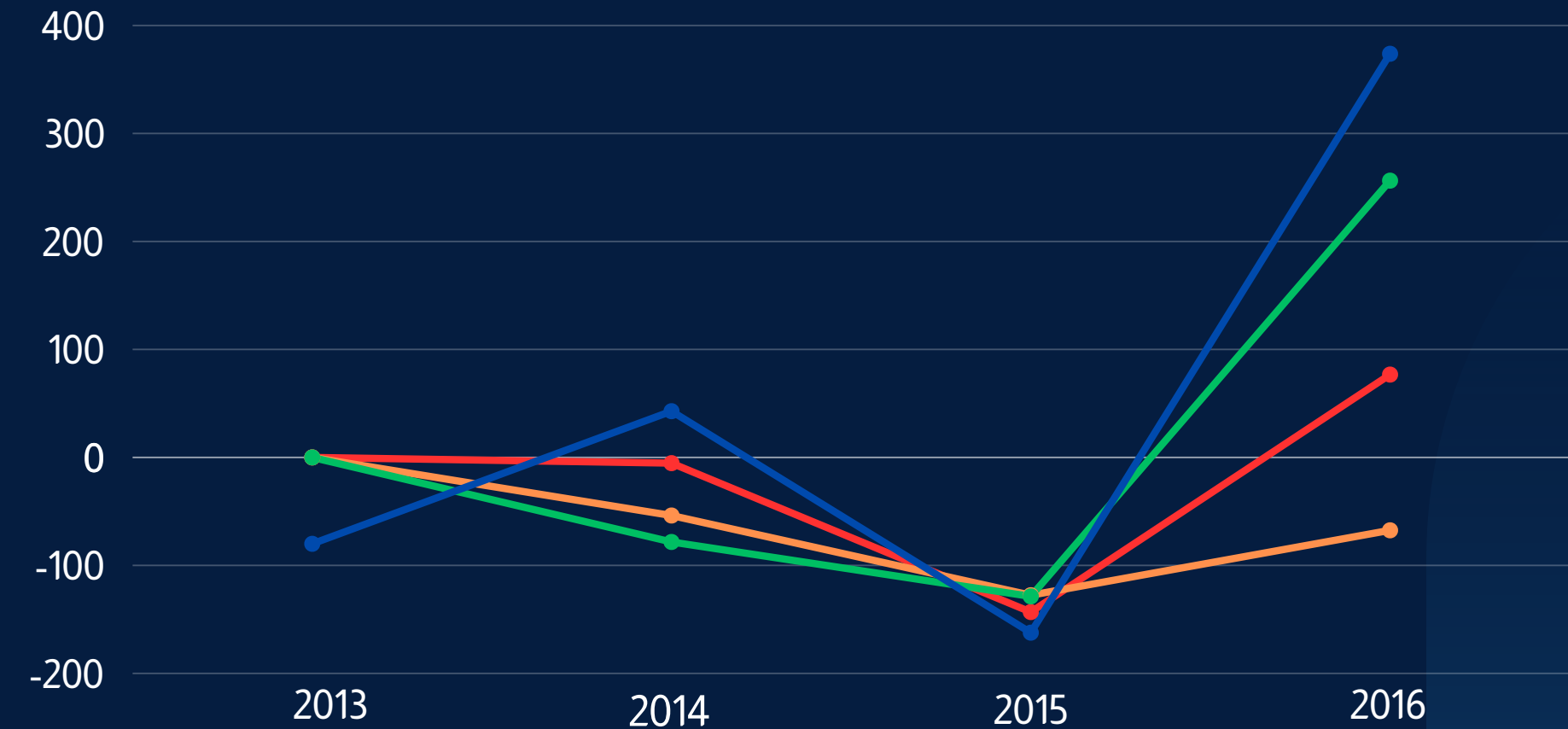
Average of daily percentage gross profit

quarter1 quarter2 quarter3 quarter4



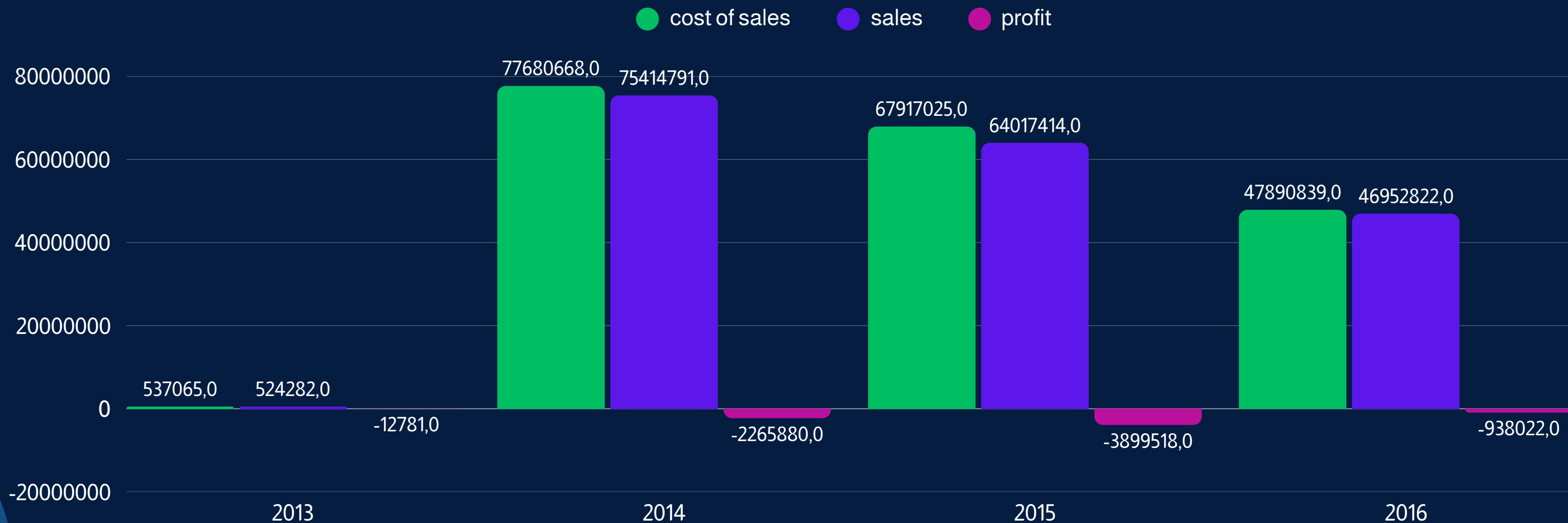
Average of daily percentage price per unit

quarter1 quarter2 quarter3 quarter4



- The rise in percentage price per unit also gives rise to a daily percentage gross profit.
- 2014 is the turning point for both gross profit and price per unit for all 4 quarters.
- The 4th quarter peaks the highest in 2016 for both gross profit and price per unit percentage wise.

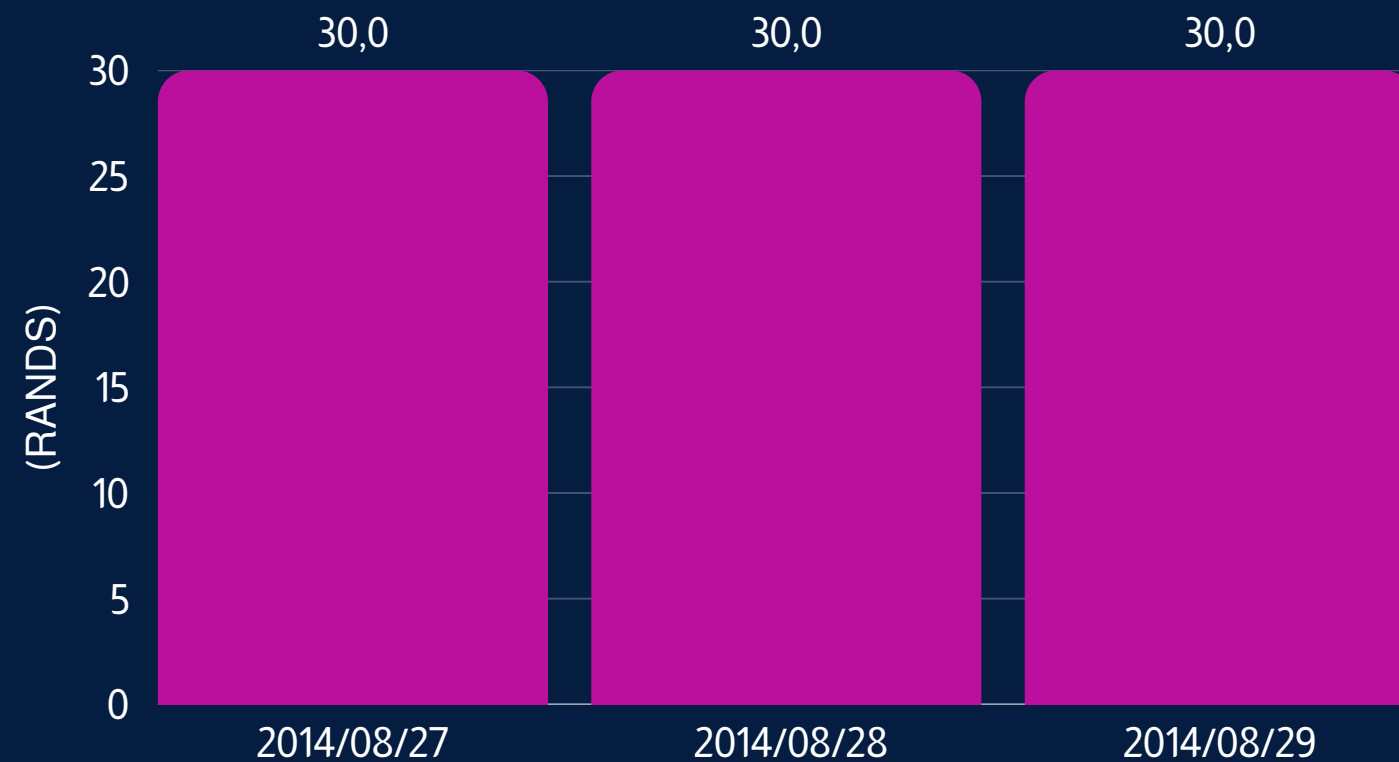
Cost of sale vs Sales vs Profit



- This bar graph aims to show the relationship that exists between cost of sales versus sales versus profit.
- Cost of sales supersedes the revenue collected from sales, leading to a negative profit margin from 2013 to 2019.
- This graph suggests that the cost it takes to produce or purchase the product is high while the price at which the product is sold at is very low.

3 PERIODS FOR PROMOTION

3 Periods when the product was on promotion



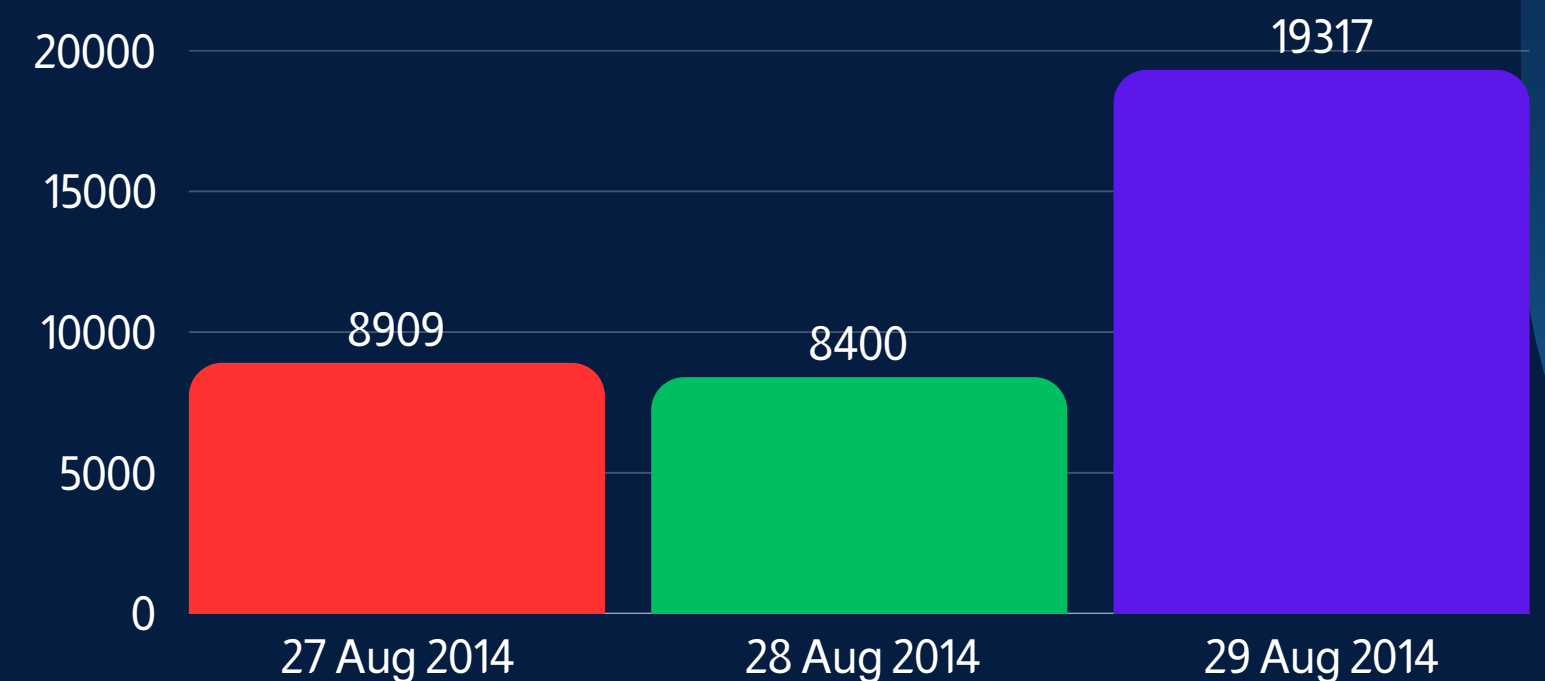
- This is a promotional period between the these three periods.
- Demand for the product doubles on the last day

- FORMULA FOR PRICE ELASTICITY OF DEMAND

$$\frac{\% \text{ Change in Quantity Demand} / \text{Quantity}}{\% \text{ Change in Price} / \text{Price}}$$

- The Price Elasticity of Demand for both periods is 0 .
- This indicates that there is no relationship between the quantity sold and the price per unit.
- The price of the product is inelastic as it is insensitive to quantity demand increase over the three periods.

Demand between the 3 periods



AVERAGE PRICE PER UNIT

- Formula

Total Sum Of Price Per Unit

1053

- The average price per unit is R37 rounded up to the nearest rand.
- With the average price being R37, the three periods was when the product was on promotion at R30.
- The product performs better when on promotion in terms of quantity sold and not well when it comes to profit and price per unit.
- Since the the Price Elasticity of Demand for both periods is <1 , it means that there is no price adjustment to match the demand.
- The product performs worst on promotion because while demand doubles with cost of sales increasing, the price per unit remains unchanged, which is unsustainable.

08

RECOMMENDATIONS



STANDARDISATION

One of the best ways to reduce costs for an entity includes formalising all operations of the entity including a relationships with suppliers to get the best price possible



PRODUCT VARIETY

Producing high cost products requires niche markets with less industry players . The entity must diversify their product range to balance and diversify their target market to collect more revenue than cost to produce or sell.



PRICING STRATEGY

There is need for the product to have a different approach to the way price is done. Pricing strategy must be driven by informed insights to avoid a decrease in demand



MARKETING

The current marketing or reputation suggests that the products is a low cost product rather than the qualities of the product. this is evident by how much is sold when the product is on promotion versus the when it is on a normal.

THANK YOU

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