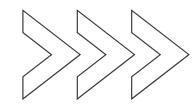


WAHACA PRICE PROMOTION

Natalie Kvochak, Maryclare Leonard, Sean O'Grady





01 PROBLEM STATEMENT

02 EMPIRICAL STRATEGY

03 KEY RESULTS

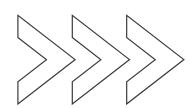
04 MANAGERIAL DECISIONS/SUGGESTIONS

05 DISCUSSIONS ON LIMITATIONS

01

Problem Statement





Background

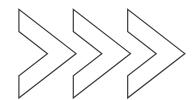
Number of Tesco Stores: 20

Wahaca Products: salsa, tortillas, marinade & soft tacos

Two sizes: large (300 grams) and small (200 grams)

Test Results

Test ran for 10 weeks in all 20 stores; small size salsa only Zone 1 pricing: £1.59; Zone 2 pricing: £1.79 Price promotions: £1.19 for 4 weeks and £0.99 for 1 week Wahaca was a successful product line and should move into launch phase



Next Steps

Number of Stores: 20

Length of Time: 10 weeks

Desired Result: Price Promotion Strategy for Small Size

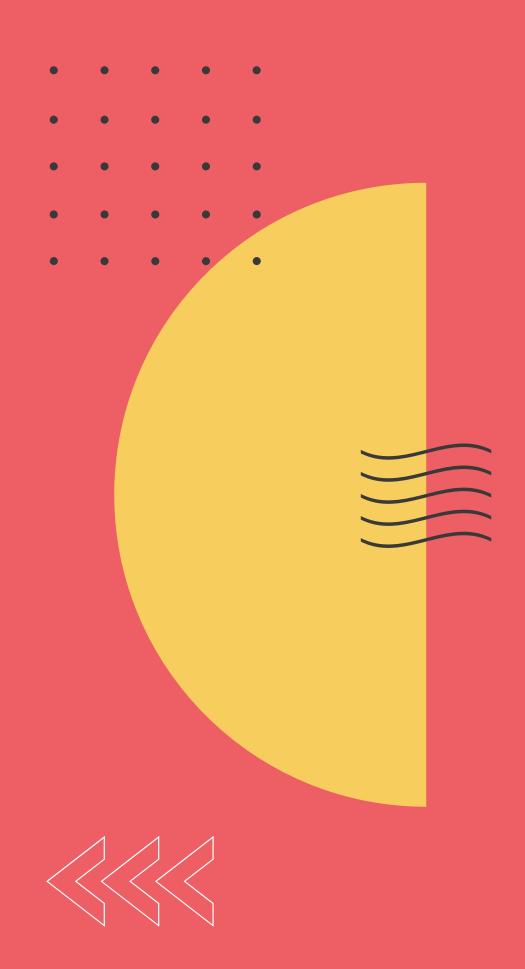
Wahaca salsas

Question: Repeat the pricing from the test or do something

different?

02

Empirical Strategy



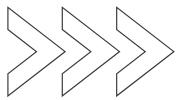
DATA EXPLORATION





Visualize the distribution of the Number of Units sold at each price point

Visualize the Regression we run in the next step

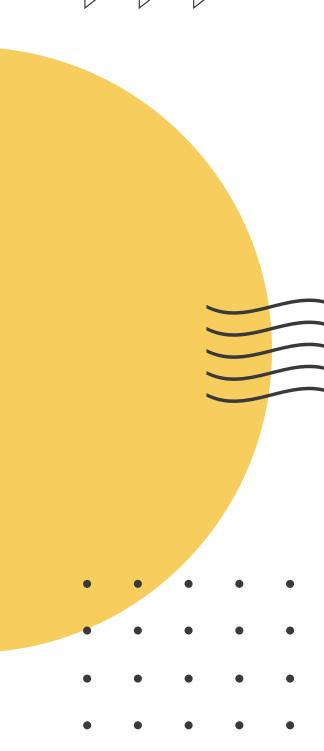


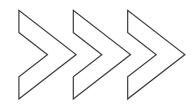
Correlation Matrix

```
price pop units holiday
price 1.00 -0.17 -0.61 -0.50
pop -0.17 1.00 0.45 0.00
units -0.61 0.45 1.00 0.67
holiday -0.50 0.00 0.67 1.00
Sample Size
[1] 200
```

Positive Correlation between units & population.

Stronger Positive Correlation between units & holiday.





Regression for Zone 1

Coefficients:

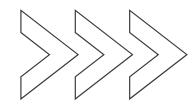
```
Estimate Std. Error t value Pr(>|t|)

(Intercept) 6.94964 0.07245 95.926 < 2e-16 ***

ln_p -2.27334 0.19871 -11.440 < 2e-16 ***

Dholiday1 0.47892 0.11352 4.219 5.53e-05 ***
```

Regression indicates that the price elasticity for Zone 1 is -2.273.



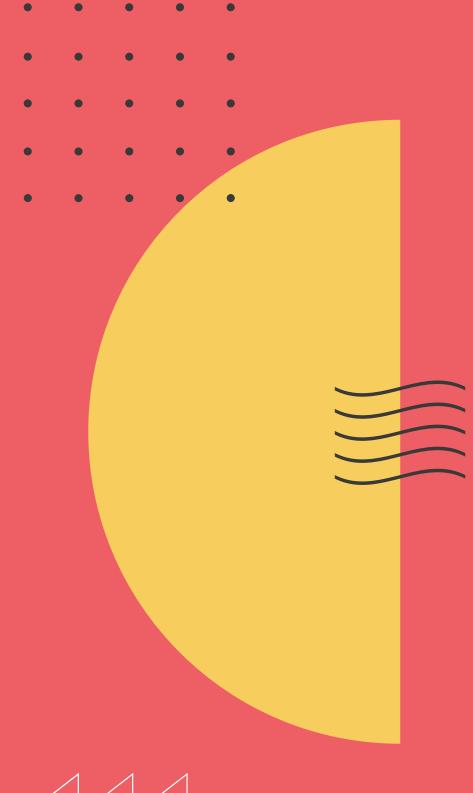
Regression for Zone 2

Coefficients:

```
Estimate Std. Error t value Pr(>|t|)
(Intercept) 6.03401 0.06075 99.325 < 2e-16 ***
ln_p -2.36523 0.13525 -17.488 < 2e-16 ***
Dholiday1 0.67766 0.10303 6.577 2.43e-09 ***
```

Regression indicates that the price elasticity for Zone 2 is -2.365.

03



Key Results



Wahaca Profit Zone 1

£1.19 PRICE PROMICINA

	Base	Promotion
Manufacturing Cost	0.6	0.6
Whoelsale Price	1	0.79
Retail Price	1.59	1.19
Retail % Margin	37%	34%
Manufacturer % Margin	40%	24%
Average Units per Zone per Week	3799	7335
Manufacturer Gross Profit	£ 1,520	£ 1,394
Retailer Gross Profit	£ 2,242	£ 2,934
Trade Budget		£ 1,540
* Elasticity		-2.27

£126 loss in profit

Wahaca Profit Zone 1

£1.09 PRICE PROMOTION

	1		
	Base	Promo	tion
Manufacturing Cost	0.	6	0.6
Whoelsale Price		1	0.79
Retail Price	1.5	9	1.09
Retail % Margin	379	6	28%
Manufacturer % Margin	409	6	24%
Average Units per Zone per Week	379	9	8952
Manufacturer Gross Profit	£ 1,520	£	1,701
Retailer Gross Profit	£ 2,242	£	2,686
Trade Budget		£	1,880
* Elasticity			-2.27

£181 increase in profit

Tesco Profit Zone 1

£1.19 PRICE PROMICIN

	<u></u>	
	Base	Promotion
Manufacturing Cost	0.6	0.6
Whoelsale Price	1	0.79
Retail Price	1.59	1.19
Retail % Margin	37%	34%
Manufacturer % Margin	40%	24%
Average Units per Zone per Week	3799	7335
Manufacturer Gross Profit	£ 1.520	£ 1.394
Retailer Gross Profit	£ 2,242	£ 2,934
Trade Budget		£ 1,540
* Elasticity		-2.27

£692 increase in profit

Tesco Profit Zone 1

£1.09 PRICE PROMOTION

	Base	Promotion
Manufacturing Cost	0.6	
Whoelsale Price	:	0.79
Retail Price	1.59	1.09
Retail % Margin	37%	28%
Manufacturer % Margin	40%	24%
Average Units per Zone per Week	3799	8952
Manufacturer Gross Profit	£ 1.520	£ 1.701
Retailer Gross Profit	£ 2,242	£ 2,686
Trade Budget		£ 1,880
* Elasticity		-2.27

£444 increase in profit

Wahaca Profit Zone 2

£1.19 PRICE PROMICINA

	Base	Promotion
Manufacturing Cost	0.6	0.6
Whoelsale Price	1	0.79
Retail Price	1.79	1.19
Retail % Margin	44%	34%
Manufacturer % Margin	40%	24%
Average Units ner 7one ner Week	1088	2850
Manufacturer Gross Profit	£ 435	£ 542
Retailer Gross Profit	£ 859	£ 1,140
Trade Budget		£ 599
* Elasticity		-2.36

£107 increase in profit

Wahaca Profit Zone 2

£1.09 PRICE PROMOTION

	Base		Prom	otion
Manufacturing Cost	С).6		0.6
Whoelsale Price		1		0.79
Retail Price	1.	79		1.09
Retail % Margin	44	1%		28%
Manufacturer % Margin	40)%		24%
Average Units per Zone per Week	10	88		3507
Manufacturer Gross Profit	£ 43	5	£	666
Retailer Gross Profit	£ 85	9	£	1,052
Trade Budget			£	736
* Elasticity				-2.36

£231 increase in profit

Tesaco Profit Zone 2

£1.19 PRICE PROMICIN

	Base		Pron	notion
Manufacturing Cost		0.6		0.6
Whoelsale Price		1		0.79
Retail Price		1.79		1.19
Retail % Margin		44%		34%
Manufacturer % Margin		40%		24%
Average Units per Zone per Week		1088		2850
Manufacturer Gross Profit	£	435	£	542
Retailer Gross Profit	£	859	£	1,140
Trade Budget			£	599
* Elasticity				-2.36

£281 increase in profit

Tesaco Profit Zone 2

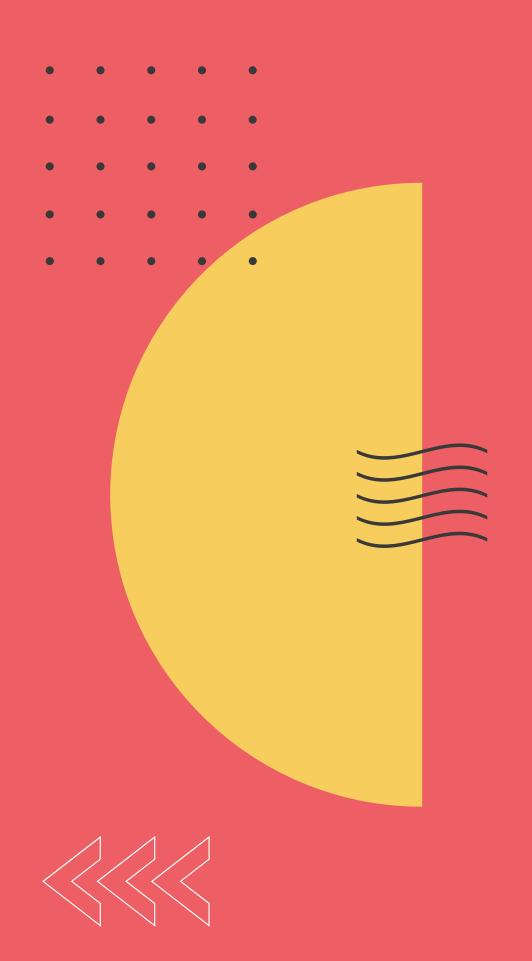
£1.09 PRICE PROMOTION

	Base	2	Pron	notion
Manufacturing Cost		0.6		0.6
Whoelsale Price		1		0.79
Retail Price		1.79		1.09
Retail % Margin		44%		28%
Manufacturer % Margin		40%		24%
Average Units per Zone per Week		1088		3507
Manufacturer Gross Profit	£	435	£	666
Retailer Gross Profit	£	859	£	1,052
Trade Budget			£	/36
* Elasticity				-2.36

£193 increase in profit

04

Managerial Discussions/ Suggestions



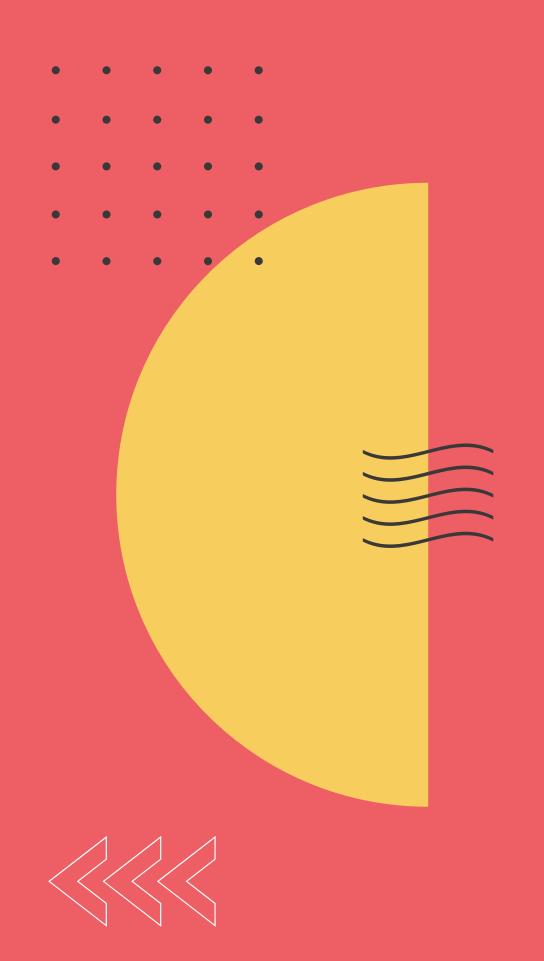
Promotion Strategy

- Promotion price of £1.09 rather than £1.19
 - Higher combined gross margin
- With current £0.21 scanback, Tesco is worse off in scenario 2
- Changing scanback price to £0.24 makes £1.09 more profitable than a regular week for Wahaca and more profitable than scenario 1 for Tesco
- Lower price would drive volume
 - Increased market penetration for new product

	Wahaca	Tesco	Total
Scenario 1	£1,935	£4,074	£6,009
Scenario 2	£2,367	£3,737	£6,104
New Scanback	£1,993	£4,111	£6,104

05

Discussion on Limitations

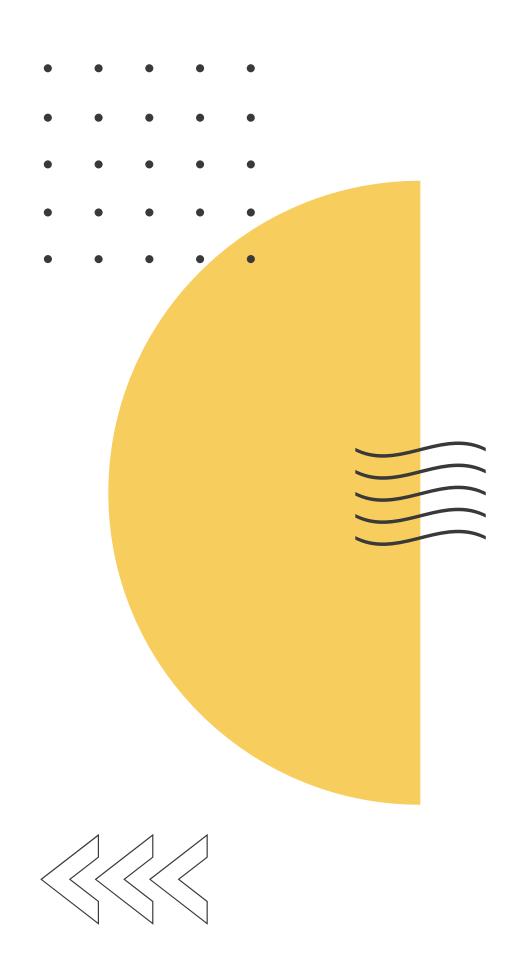


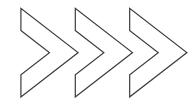
Limitations

- Time period of entire test is too short
- Only having one week of data for 0.99 is not sufficient

Concerns

• Higher elasticity in Zone 2, but a higher regular price in Zone 2







Thank You

Appendix

£1.09 PRICE PROMOTION

	Base		Promo	tion
Manufacturing Cost		0.6		0.6
Whoelsale Price		1		0.79
Retail Price		1.59		1.09
Retail % Margin		37%		28%
Manufacturer % Margin		40%		24%
Average Units per Zone per Week		3799		8952
Manufacturer Gross Profit	£ 1	,520	£	1,701
Retailer Gross Profit	£ 2	,242	£	2,686
Trade Budget			£	1,880
* Elasticity				-2.27

£1.19 PRICE PROMICIN

	Base	Promotion
Manufacturing Cost	0.6	0.6
Whoelsale Price	1	0.79
Retail Price	1.59	1.19
Retail % Margin	37%	34%
Manufacturer % Margin	40%	24%
Average Units per Zone per Week	3799	7335
Manufacturer Gross Profit	£ 1,520	£ 1,394
Retailer Gross Profit	£ 2,242	£ 2,934
Trade Budget		£ 1,540
* Elasticity		-2.27

£1.19 PRICE PROMOTION

	Base		Pron	notion
Manufacturing Cost	0	.6		0.6
Whoelsale Price		1		0.79
Retail Price	1.7	79		1.19
Retail % Margin	44	%		34%
Manufacturer % Margin	40	%		24%
Average Units per Zone per Week	108	38		2850
Manufacturer Gross Profit	£ 43	5	£	542
Retailer Gross Profit	£ 85	9	£	1,140
Trade Budget			£	599
* Elasticity				-2.36

£1.09 PRICE PROMOTION

	Base		Prom	otion
Manufacturing Cost		0.6		0.6
Whoelsale Price		1		0.79
Retail Price		1.79		1.09
Retail % Margin		44%		28%
Manufacturer % Margin		40%		24%
Average Units per Zone per Week		1088		3507
Manufacturer Gross Profit	£	435	£	666
Retailer Gross Profit	£	859	£	1,052
Trade Budget			£	736
* Elasticity				-2.36

	Base	Promotion
Manufacturing Cost	0.6	0.6
Whoelsale Price	1	0.79
Retail Price	1.59	1.19
Retail % Margin	37%	34%
Manufacturer % Margin	40%	24%
Average Units per Zone per Week	3799	7335
Manufacturer Gross Profit	£1,519.68	£1,393.56
Retailer Gross Profit	£2,241.53	£2,933.81
Trade Budget		£1,540.25
* Elasticity		-2.27
Population Coefficient	0.2224	
EXP(population coefficient)	1.249070906	
	1.338630651	
Units per Week for Population of 75,000	5086	9818
Number of Weeks	12	14
Total Units for Populaiton of 75,000	61029	137455
Total Units Sold over 26 Weeks	198484	

- 1. Calculate e^population coefficient from the regression of population
- 2. Multiply that by 7.5 / 6.99822
 - a. (the theoretical population)/(the average populations for zone 1)
- 3. The result is multiplied by the average units per zone per week
 - a. (3,799 for base and 7,335 for promotion at £1.19)
- 4. The result is the units per week for population of 75,000
 - a. The Base and Promotion results are multiplied by 12 and 14 respectively to get the sum of total units over the 26 weeks.

ZONE 1 @ £1.19 PROMOTION THEORETICAL POPULATION OF 75,000

	Base	Promotion
Manufacturing Cost	0.6	0.6
Whoelsale Price	1	0.79
Retail Price	1.59	1.09
Retail % Margin	37%	28%
Manufacturer % Margin	40%	24%
Average Units per Zone per Week	3799	8952
Manufacturer Gross Profit	£1,519.68	£1,700.82
Retailer Gross Profit	£2,241.53	£2,685.51
Trade Budget		£1,879.86
* Elasticity		-2.27
Population Coefficient	0.2224	
EXP(population coefficient)	1.249070906	
	1.338630651	
Units per Week for Population of 75,000	5086	11983
Number of Weeks	12	14
Total Units for Populaiton of 75,000	61029	167762
Total Units Sold over 26 Weeks	228791	

- 1. Calculate e^population coefficient from the regression of population
- 2. Multiply that by 7.5 / 6.99822
 - a. (the theoretical population)/(the average populations for zone 1)
- 3. The result is multiplied by the average units per zone per week
 - a. (3,799 for base and 8,952 for promotion at £1.09)
- 4. The result is the units per week for population of 75,000
 - a. The Base and Promotion results are multiplied by 12 and 14 respectively to get the sum of total units over the 26 weeks.

ZONE 1 @ £1.09 PROMOTION THEORETICAL POPULATION OF 75,000