BDA Wave 15 Group 1

Analysis and Recommendations to CS Tay

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Customer Segmentation

What are CS Tay's customers like?

81% of customer base are consistent & steady shoppers that make monthly purchases



Steady Shoppers (81%)

✓ Bought recently

(R: 32 days)

✓ Buy frequently

(F: 43 times)

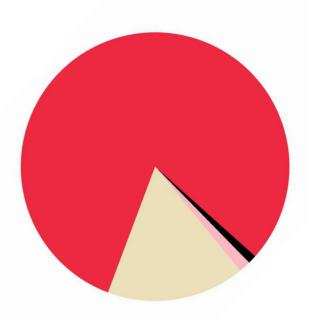
✓ Spend moderately

(M: 25K\$)



Dormant Customers (17%)

- Have not bought recently (R: 413 days)
- Do not buy frequently (F: 13 times)
- Do not spend much (M: 10K\$)





✓ ✓ Bought quite recently (R: 17 days)

✓ ✓ Buy quite frequently (F: 203 times)

✓ ✓ Spend quite a lot (M: 1.3 M\$)

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Power Buyers (1.4%)

✓ ✓ Bought very recently (R: 2 days)

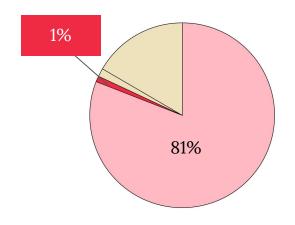
✓ ✓ ✓ Buy frequently (F: 917 times)

✓ ✓ ✓ Spend a lot (M: 492 K\$)

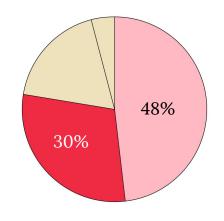
Harness the power of the 1% High Potential Buyers

Although **High-Potential Buyers** make up only 1% of the customer base, their sum of total sales make up **30% of total sales**.

Second after Steady Shoppers (48% of total sales)



Make-Up of Customer Segments

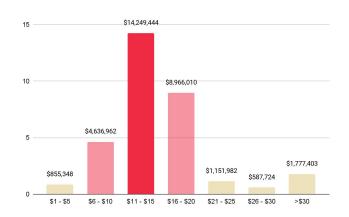


Sum of Total Sales by Customer Segments

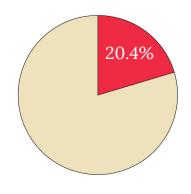
What strategies can we employ to target these segments?

Drive sales in Steady Shoppers' favourite price bucket - \$11-\$15

The majority of revenue is concentrated in the \$11 - \$15 price bucket, particularly driven by the **Steady Shoppers**.



Sum of Total Sales by Price Buckets

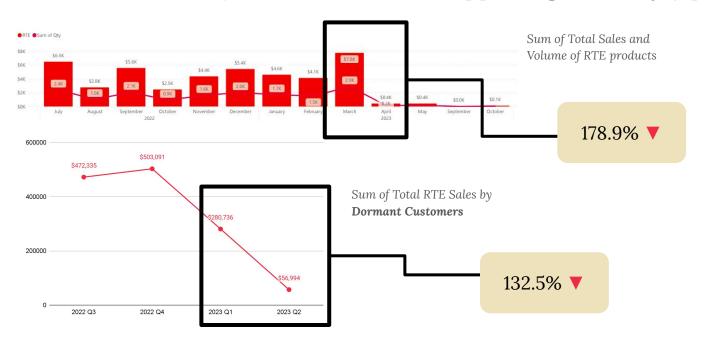


Percentage of Sales (Out of Total Sales) by **Steady Shoppers** in the **\$11-\$15 Price Bucket**

What strategies can we employ to expand this product range or capture more sales?

Investigate April 2023 changes to reactivate Dormant Customers

On average, **Dormant Customers** last purchased in **Q2 2023**, which was also when sales of **Ready-to-Eat products** dropped significantly (April 2023).



What changed for Ready-to-Eat products in April 2023, and could that be replicated to reactivate Dormant Customers?

Pricing Strategy

How can CS Tay maximise revenue through the top 10 products?

Identified complementary and substitute products to enhance pricing strategy

<u>Approach:</u> Analysed **Price Elasticities** of top 10 products* in the Supermarket and Retail customer categories

*Raw, Ready-to-Eat (RTE), Ready-to-Cook (RTC)

#1
Ready-to-Eat
products have single
fixed pricing.

Likely from B2B fixed contracts

#2
Raw products are
mostly complements
with each other.

With high cross price elasticity i.e. marginally responsive to price change #3
Ready-to-Cook
products can be
complements or
substitutes of each
other.

With high cross price elasticity i.e. marginally more responsive to price change

Since raw products are mostly complements with each other...

What does that mean to us?

SUPERMARKET RAW ITEMS CROSS PRICE ELASTICITY MATRIX								
Inventory desc	SP01 SKINLESS CHIX BREAST	SP03 CHICKEN FILLET	SP08 CH X BONLESS LEG	SP07 CHIX BONE IN THIGH	SP04 CHICKEN DRUMSTIC K	SP02 CHIX BREAST	SP05 CHIX MIDDLE WING	SP06 CHICKEN WINGSTICK
SP01 SKINLESS CHIX BREAST		С	С	C	С	С	С	С
SP03 CHICKEN FILLET	С		С	С	С	С	С	С
SP08 CHIX BONLESS LEG	С	С		С	С	С	С	С
SP07 CHIX BONE IN THIGH	С	С	С		С	С	С	С
SP04 CHICKEN DRUMSTICK	С	С	С	С		С	С	С
SP02 CHIX BREAST	С	С	С	С	С		С	С
SP05 CHIX MIDDLE WING	С	С	С	С	С	С		С
SP06 CHICKEN WINGSTICK	С	С	С	C •	С	С	С	

c Complement

s Substitute

As complements

-4.38

When **price** of **SP07 Chicken Bone In Thigh** increases by **1%**,



demand for SP06 Chicken Wingstick decreases by 4.38%.



Reducing prices of Raw Supermarket products by 5% can drive sales growth by 6-12%.

	-5%		
Product	New Price	Average Projected % Change in Volume (Across Top 10 Raw Products in Supermarket category)	Projected % Change in Sales (Across Top 10 Raw Products in Supermarket category)
SP07 CHIX BONE IN THIGH	\$8.03	▲ 13.75%	▲ 12.46%
SP08 CHIX BONELESS LEG	\$8.01	▲ 13.5%	▲ 12.32%
SP04 CHICKEN DRUMSTICK	\$6.31	▲ 12%	▲ 11.28%

Reducing prices of Raw Retail products by 1% can drive sales growth by 2-7%.

	-1%		
Product	New Price	Average Projected % Change in Volume (Across Top 4 Raw Products in Retail category)	Projected % Change in Sales (Across Top 4 Raw Products in Retail category)
SP03 CHICKEN FILLET	\$8.27	▲ 7%	▲ 6.83%
SP07 CHIX BONE IN THIGH	\$9.13	▲ 3.5%	▲ 3.40%
SP01 SKINLESS CHIX BREAST	\$8.23	▲ 3%	▲ 2.58%

Since Ready-to-Cook products can be complements or substitutes of each other...

What does that mean to us?

RETAIL RTC ITEMS CR								
Inventory desc	(99) S/L CHIX BREAST FILLET 1.15KG		GRILLED CHIX STEAK (5PKT)	A01 SPICY WINGSTICK	HONEY PORK RIBS	(22) SUPER CRISPY CHICKEN 1KG	(3) CRISPY CHIX SWEED 400G	GRILLED BONEIN LEG 5PC
(99) S/L CHIX BREAST FILLET 1.15KG		С	С	С	s	s	s	С
(33) CRISPY CHICKEN SEAWEED 1KG	s		S	С	С	s	s	
GRILLED CHIX STEAK (5PKT)	С	s		s	s	С	С	s
A01 SPICY WINGSTICK	С	s	С		s	С	С	
HONEY PORK RIBS	s	s	s	·		С	С	С
(22) SUPER CRISPY CHICKEN 1KG	s	С	s	- Sel	С		s	s
(3) CRISPY CHIX S/WEED 400G	s	С	s	s	s	s		
GRILLED BONEIN LEG 5PC	С	s	С	С	s	С	С	

c Complement

s Substitute

+4.19)As substitutes

When **price** of **Grilled Chix Steak (5pkt)** increases by **1%**,



demand for **Honey Pork Ribs** increases by



Increasing prices of most Ready-To-Cook Supermarket products by 2% can drive sales growth by 11-25%.

	+2%		
Product	New Price	Average Projected % Change in Volume (Across Top 10 RTC Products in Supermarket category)	Projected % Change in Sales (Across Top 10 RTC Products in Supermarket category)
(9) SKINLESS CHIX BREAST 345G	\$8.44	▲ 30%	▲ 25.15%
(3) CRISPY CHIX S/WEED 400G	\$8.37	▲ 29%	▲ 21.42%
(2) SUPER CRISPY CHIX 400G	\$8.40	▲ 27%	▲ 20.84%

Increasing prices of most Ready-To-Cook Retail products by 1% can drive sales growth by 2-7%.

+1% or -1%

Product	New Price	Average Projected % Change in Volume (Across Top 10 RTC Products in Retail category)	Projected % Change in Sales (Across Top 10 RTC Products in Retail category)		
GRILLED CHIX STEAK (5PKT)	\$28.94	▲ 13%	▲ 7.70%		
(3) CRISPY CHIX S/WEED 400G	\$7.73	▲ 14%	▲ 6.04%		
(33) CRISPY CHICKEN SEAWEED 1KG	\$17.14	▲ 14%	▲ 5.40%		

Recommendations

What can CS Tay do next?

#1 Increase prices of Ready-to-Cook products by 1-2% in contracts with High Potential Buyers to grow sales by 4 - 20%

Inventory Desc	Customer Category	Current Unit Price	Proposed Unit Price (▲1 - 2%)	Projected Increase in Sales (Across Top 10 RTC Products in respective customer categories)
(1) CRISPY CHIX ORIGINAL 400G	Supermarket	\$8.23	\$8.40	20.84%
(3) CRISPY CHIX S/WEED 400G	Retail	\$7.65	\$7.73	6.04%
(22) SUPER CRISPY CHICKEN 1KG	Retail	\$13.30	\$13.43	4.07%
(99) S/L CHIX BREAST FILLET 1.15KG	Retail	\$17.46	\$17.64	3.38%

#2 Reduce Prices of Raw Products by 1% in contracts with High Potential Buyers to grow sales by 2-5%

Inventory Desc	Customer Category	Current Unit Price	Proposed Unit Price (▼ 1%)	Projected Increase in Sales (Across Top 4 Raw Products in Retail category)
SP07 CHIX BONE IN THIGH	Retail	\$9.23	\$9.13	3.40%
SP01 SKINLESS CHIX BREAST	Retail	\$8.31	\$8.23	2.58%
SP02 CHIX BREAST	Retail	\$8.28	\$8.20	1.86%

List of overlapping Raw products in (i) Top 10 Products Purchased by High Potential Buyers (Retail) and (i) Top 4 Raw Products. There are no overlapping products with Top 10 Products Purchased by High Potential Buyers (Supermarket).

#3 Personalise Bundles of Complementary Products for Steady Shoppers for Continuous Engagement

Top Products within the \$11-\$15 Price Bucket Purchased by Steady Shoppers (Supermarket / Retail)

Inventory Desc	Customer Category	Current Unit Price			
FS01 FRIED 2 JOINT WING	Supermarket	\$14.25			
(66) IKEDA CHICKEN CUTLET 1.1KG	Supermarket	\$14.70			
FS07 FRIED CRISPY DRUM	Retail	\$14.20			
(22) SUPER CRISPY CHICKEN 1KG	Retail	\$13.30			

For e.g. (22) SUPER CRISPY CHICKEN is

Highly complementary with:

- 1. (33) CRISPY CHICKEN SEAWEED 1KG
- 2. HONEY PORK RIBS





Prioritise the first 3 customer segments who are 82% of customer base & contribute to 97% of total sales



High Potential Buyers

- 1. Increase prices of most RTC by 1-2% to grow sales by 4-20%
- Reduce prices of Raw products by 1% to grow sales by 2-5%
- 3. Offer targeted discounts on Raw products such as SP02 Chix Breast & SP01 Skinless Chix Breast when they purchase premium products such as Crispy Chicken Seaweed
- 4. **Upsell premium products** when they
 purchase regular
 products of RAW



Steady Shoppers

- Offer personalised bundles of Complementary products e.g. bundle Super Crispy Chicken with Crispy Chicken Seaweed or Honey Pork Ribs
- 2. Offering Promotional discounts of 25% e.g. School Holiday Sales on Chix Breast, Super Crispy Chicken
- 3. Constantly monitor main customer base and observe popular items or seasonal trends for potential promotional offers



Power Buyers

- 1. Have dedicated
 Account Managers
 for top 3 customers
 ANG Mo
 Supermarket,
 Advance Food
 Systems, Pan
 Pacific Retail Mgmt
- 2. Give tiered volume discounts of 10% when they buy any 5 of favourite RTC products
- 3. Cross Promotions
 between RAW and
 RTC such as A01
 Spicy Wingstick
 with S/L Chix
 Breast Fillet



Dormant Customers

- l. Relaunch Ready-to-Eat products and launch a marketing campaign Online, Paper and TV depending on budget
- 2. Start re-engagement campaigns by offering aggressive discounts of 25% & loyalty rewards on every 1\$ spent on popular items such as Crispy Chicken Seaweed & Skinless Chicken Breast
- 3. Personalised promotion offerings

cost

- Dedicate account managers to understand their business goals and develop tailored growth plans for Power Buyers and High Potential Customers
- Offer customized products
 or packaging solutions
 tailored to the business
 needs of Power Buyers and
 High Potential Customers
 to consolidate more of
 their share of wallet with
 CS Tay
- Explore partnership opportunities in product development

- Increase prices of most Ready-to-Cook products for High Potential Customers
- Reduce prices of Raw products for High
 Potential Customers
- Offer bundles for complementary Raw and Ready-to-Cook products for Steady Shoppers
- Look at what changed for Ready-to-Eat products in April 2023 to replicate and re-engage **Dormant** Customers
- Personalised promotion offerings to re-engage with Dormant Customers

Thank you.

BACKUP

Methodology in Forecasting Sales Increase (1/3)

Taking the example of SP01 Skinless Chicken Breast, these are the steps to calculate the impact of its price change on sales of top 10 Raw Supermarket products

- 1. Obtain own price elasticity¹ of SP01 Skinless Chicken Breast
- 2. Obtain cross price elasticities² for top 10 Raw Supermarket products

1% increase in price of SP01 Skinless Chix Breast will lead to 1.45% decrease in —volume of SP03 chicken fillet

Inventory desc	S;201 SKINLESS CHIX BREAST	SP03 CHICKEN FILLET	SP08 CHIX BONLESS LEG	SP07 CHIX BONE IN THIGH	SP04 CHICKEN DRUMSTIC K	SP02 CHIX BREAST	SP05 CHIX MIDDLE WING	SP06 CHICKEN WINGSTICK
Inventory desc								
SP01 SKINLESS CHIX BREAST	NaN	(1.63)	(2.23)	(1.70)	(1.70)	(0.89)	(0.49)	(1.69)
SP03 CHICKEN FILLET	(1.45)	NaN	(1.85)	(1.65)	(1.71)	(0.88)	(0.18)	(1.37)
SP08 CHIX BONLESS LEG	(2.03)	(2.04)	NaN	(2.97)	(2.21)	(1.66)	(0.16)	(1.94)
SP07 CHIX BONE IN THIGH	(1.91)	(1.92)	(3.00)	NaN	(2.19)	(1.57)	(0.23)	(2.16)
SP04 CHICKEN DRUMSTICK	(1.79)	(2.22)	(2.76)	(2.58)	NaN	(1.60)	(1.43)	(2.22)
SP02 CHIX BREAST	(3.04)	(3.22)	(4.16)	(4.21)	(3.40)	NaN	(0.97)	(3.16)
SP05 CHIX MIDDLE WING	(2.25)	(2.64)	(3.73)	(3.50)	(2.97)	(2.14)	NaN	(2.93)
SP06 CHICKEN WINGSTICK	(3.56)	(4.27)	(4.86)	(5.41)	(4.38)	(3.35)	(3.91)	NaN

^{1:} Run linear regression where independent variable = log(qty SKU1) and dependent variable = log(qty SKU1), OPE is coefficient

^{2:} Run linear regression where independent variable = log(qty SKU2) and dependent variable = log(qty SKU1), CPE is coefficient

Methodology in Forecasting Sales Increase (2/3)

3. Obtain the % change in total sales of top raw supermarket products for -5% change in price of SP01 Skinless Chix Breast:

													-	
SKU1 = SP01 SKINLESS CHIX BREAST	SKU	old pric	ce	old volume	old	sales	new	price	new volume	new sales	С	Change in sales		Change in price of SKU1
SP01 SKINLESS CHIX BREAST	SKU1	\$	7.77	1	1 \$	7.77	\$	7.38	1.09	\$ 8.00	6 \$	\$ 0.29		-5%
SP03 CHICKEN FILLET	SKU2	\$	7.82	1	1 \$	7.82	\$	7.82	1.07	\$ 8.38	в \$	\$ 0.56		
SP08 CHIX BONLESS LEG	SKU2	\$	8.43	1	\$	8.43	\$	8.43	1.10	\$ 9.20	8 \$	\$ 0.85		Total change in sales
SP07 CHIX BONE IN THIGH	SKU2	\$	8.46	1	1 \$	8.46	\$	8.46	1.10	\$ 9.2	7 \$	\$ 0.81		\$ 6.23
SP04 CHICKEN DRUMSTICK	SKU2	\$	6.64	1	1 \$	6.64	s	6.64	1.09	\$ 7.23	3 \$	\$ 0.60		
SP02 CHIX BREAST	SKU2	\$	7.75	1	1 \$	7.75	s	7.75	1.15	\$ 8.90	3 \$	\$ 1.18		% change in sales
SP05 CHIX MIDDLE WING	SKU2	\$	6.74	1	1 \$	6.74	\$	6.74	1.11	\$ 7.50	0 \$	\$ 0.76		10.34%
SP06 CHICKEN WINGSTICK	SKU2	s	6.63	1	1 \$	6.63	s	6.63	1.18	\$ 7.8	1 \$	\$ 1.18	1,	

Change in volume of SP01 Skinless Chix Breast determined using own price elasticity coefficient

Change in volume of remaining Raw supermarket products determined using cross price elasticity coefficients with SP01 Skinless Chix Breast

% change in sales = (new sales - old sales) / (old sales)

Methodology in Forecasting Sales Increase (3/3)

- 4. Repeat step 1-3 for remaining top raw supermarket products to determine the range of % change in total sales for 5% change in price of each product
- Repeat steps 1-4 for top Raw Retail, Ready-to-Cook Supermarket, and Ready-to-Cook Retail products