## CASE STUDY

Portfolio Optimization with Brand Equity

## Overview

## Background

## Approach



## Impact



- Client was planning to develop a new pricing strategy to manage consumer value as well as profitability
- Client also wanted to validate the optimal positioning of its brand vs. competition and understand the true potential of its brand to determine its ability to charge a premium
- Developed a solution combining conjoint and price modeling using sales data based pack price architecture
- Identified the preference of new brand packages and price points in a methodical way
- Optimized brand's portfolio so that client can maximize their revenue margin rather than just volumetric share
- Calculated the impact of per unit increase/decrease in the package cost on the preference shares. This helped client understand the optimum pricing curve/accepted price range
- Developed a robust Brand equity model which helped ascertain the current brand positioning and its interaction with the total sales/revenue.
- Developed simulator for determining volume share, revenue and impact of brand equity on the overall revenue share in the market
- Devised a new portfolio that helped client charge a premium for its products and boosted their brand equity to negate the impact of price increase on sales.
- It was observed that offering price incentive in larger packs helped boost sales by $1.2 \%$ and a premium on smaller packs boosted the revenues by $0.6 \%$ with key necessary measure to uplift equity


## Case Study: Detailed Approach

A multi modular approach
Each respondent was administered two sections of the survey

Module 3
Integrated Brand Equity and Conjoint results

Module 1
Usage, Attitude and Perception Section
Brand Equity Modelling


## Brand Equity Detailed (1 of 2)

By using the technique of Partial Least Square (PLS) regression we arrived at a Brand Connect Score, which is a stable measure for any brand

The Direct vs. Indirect impact


PLS multivariate regression technique is a variance based Structured Equation Modeling (SEM) technique particularly suited to situations in which constructs are measured by a large number of predictors, which are often inter-related.
PLS path modeling is recommended in order to test and validate exploratory models and is a good fit for prediction-oriented research.

## Brand Equity Detailed (2 of 2)

Post ascertaining the BE Score for Brand1 vis-à-vis competition, respondents were segmented basis their range of BE Score and the results were then integrated with Module 2 of the study


## Key Business Asks and Proposed Solutions



## The conjoint design will have following attributes / levels -

- Attribute: Pack Type
- Levels: Single Pack, Multi Pack
- Allows to gauge consumer preference for Single (for on the g consumption) vs Multi Pack (for storage)
- Attribute: Price
- Levels: Conditional display base on SKU base price and price variations (above / below base)
- Example - Base - 5\%, Base, Base + 5\% or Base - 10\%, Base, Base + 10\%
- Allows testing wide range of prices without introducing large number of different price attributes/evels, making design efficient
- This also, allows to interpolate prices within the range tested for identifying magic price point which can garner maximum revenue and volumes


## Key Business Asks and Proposed Solutions - cont'd

| Requirement | Proposed Solution |
| :---: | :---: |
| Predict the upsizing / downsizing of packs with new SKU introduction / changes <br> Estimate the cannibalization with changes in existing market scenario | - Allowed the respondents to pick multiple SKUs and multiple units in the conjoint exercise <br> - Optimized portfolio volume rather than SKU volume |

## The conjoint design will have following attributes / levels -

- An excel based simulator was created for 'What if' analysis and understand how an introduction of new SKU in portfolio impacted share of existing SKUs


## A user friendly simulator was created to run the various "What-if" scenarios



》E

## Optimized Price Points

With price increase, the overall portfolio volume decreases only slightly and revenue gain is observed

Price Elasticity of $\mathbf{2 5 0 m l}$ Brand1 SKU $-0.49$

Price Sensitivity at SKU level


## Current price

- Demand curves help measure the price sensitivity of different SKUs
- In this case, we can calculated the impact of increase/decrease in the package cost on the preference shares
- This helped Client to understand the optimum pricing curve/accepted price range


## Market Dynamics

'Cross Price Elasticity' indicates the percentage change in own packs when any other SKU price changes by 1\%.

|  | Cross Price Elasticity | SKU A | SKU B | SKU C | SKU D |
| :---: | :---: | :---: | :---: | :---: | :---: |
| If price of SKU <br> A increases by <br> $1 \%$, volume loss <br> is 250 units | SKU A | -250 | $7 \%$ | $11 \%$ | $20 \%$ |

The Cross-elasticity table above is an extract and has been converted to percentages against volume loss

- The numbers in the diagonal bright green cells represent the volume loss for every $\mathbf{1 \%}$ price increase Eg: if SKU A increases its price by $1 \%$, volume loss is 250 units
- Then read across the row to see where the volume loss goes to. In the case of SKU A, 7\% goes to SKU B, 11\% goes to SKU C and 20\% goes to SKU D
- Reading along the vertical column is a quick way to see the gains made by that SKU from its competition. Eg: SKU A gains $17 \%$ from a price increase in SKU B


## Impact on Existing Portfolio

Addition of a SKU A at $\mathbf{\$ 1 . 2}$ is successful in capturing incremental share, with some cannibalization


There will be marginal cannibalization mainly from the 500 ml multi pack

The cannibalization leads to a slight decrease in volume share for Brand A multipack

But, this option gives higher incremental share which will be beneficial for portfolio

[^0]
## Key Business Asks and Proposed Solutions

## Requirement

Proposed Solution

- A model to integrate the results from Module 1 and Module 2 to strike a relation between Brand Equity and Brand Market Shares


## Equity Pull Assessment -

- An excel based simulator was created to understand how much brand equity affects the total market shares. It helped test various 'What if' analysis and estimate the change in Equity required to regain the loss in shares following a price increase


## Latent Variables Relationships in 'Overall' Model



4/5th of the overall Brand Equity constitute Brand Mind with a high impact of Awareness. Price perception has only a $7 \%$ weightage to overall equity.

and Brand Might explains the remaining Brand Equity wherein Consumption, Affinity and Functional Associations have similar contributions.


## Output of Equity Model



## What Equity does Brand1 demands for a price increase of \$ x

- Current Price Index (PI) of 165, Brand1 draws a revenue of \$ 3mn
- Increasing PI to 175 , results in the overall revenue drop of $6 \%$
- This can be compensated by increasing the Brand Equity spends by $12.21 \%$
- Also, decreasing the PI to 152 , will result in a $10 \%$ increase in the revenue


》E

THANK YOU


[^0]:    *All SKUs are not mentioned as it is just for illustration purpose

