Sales Forecasting

What is Sales Forecasting?

sales forecast is a projection of the expected
 A customer demand for products or services at a specific company, for a specific time horizon, and with certain underlying assumptions

Essential tool used for business planning, marketing, and general management decision making.

□ Sales forecasting can help you achieve sales goals.

□ Sales forecasting can help drive sales revenue, improve efficiency, increase customer retention and reduce costs.

Factors affecting sales forecasting **External Factors**

Relative state of the economy
Direct and indirect competition
Styles or fashions
Consumer earnings
Population changes
Weather

Factors affecting sales forecasting Internal Factors

- □ Labour problems
- Inventory shortages
- Working capital shortage
- Price changes
- Change in distribution method
- Production capability shortage
- New product lines

Sales Forecasting Methods Qualitative Quantitative

Executive opinion method Delphi Method Sales force composite method Survey of Buyer's intentions Time Series Analysis Market Test Method Regression Analysis

Executive opinion method

- □Most widelyused
- Method of combining and averaging views of several executives regarding a specific decision or forecast.
- Leads to a quicker (and often more reliable) result without use of elaborate data manipulation and statistical techniques.

Delphi Method

Process includes a coordinator getting forecasts separately from experts, summarizing the forecasts giving the summary report to experts who are asked to make another prediction; the process is repeated till some consensus is reached 6 Sales force composite method

- Also knownas "Grassroots Approach"
- Individual salespersons forecast sales for their territories
- □Individual forecasts are combined & modified by the sales manager to form the company sales forecast.
- Best used when a highly trained & specialized sales force is used.

Survey of Buyer's intentions

Process includes asking customers about their intentions to buy the company's product and services

Questionnaire may contain other relevant questions

Time Series Analysis

Make forecasts based purely on historical patterns in the data. It has four components

 The Trend component-Gradual upward or downward

movement over time.



¬ The Cyclical Component

Sales are often effected by swings in general economic activity as consumers have more or less disposable income available



The Cyclical Component

-The Seasonal Component

It is a distinguished pattern to sales caused by things such as the weather, holidays, local customs and general consumer behaviour.



The Seasonal Component

- ¬The Erratic events-Random Variations in data caused by change and unusual situations
- Time series analysis are accurate for short term and medium term forecasts and more so when demand is stable or follows the past behavior.
- Some of the techniques of time series popular
 - analysis are:
- moving averages,
- exponential smoothing

Moving Averages

□ The sales results of multiple prior periods are averaged to predict a future period

Called 'moving' because it is
 continually recomputed as
 new data becomes available,
 it progresses by dropping the
 earliest value and adding the
 latest value.

Week	Sales	3 Week SMA
10	105	
11	110	
12	107	
13	118	107.33
14	120	111.67
15	101	115
16	106	. 113
17	114	109
18	118	107
19	121	112.67
20	125	117.67

Exponential Smoothing

- Similar to moving average method
- Used for short runforecasts
- Instead of weighing all observations equally in generating the forecast, exponential smoothing weighs the most recent observations heaviest
 - Next year's sale=a(this year's sale) + (1-a)(this year's forecast)
 - a is smoothing constant taken in scale o-1

Market Test Method

- Used for developing one time forecasts particularly relating to new products
- A market test provides data about consumers' actual purchases and responsiveness to the various elements of the marketing mix.
- □ On the basis of the response received to a sample market test, product sales forecast is prepared.

Regression Analysis

Identifies a statistical relationship between independent variables. sales(dependent variable) and one or more influencing factors, which are termed the considered (eg. population growth), it is called a linear regression, and the results can be shown as a line graph predicting future values of sales based on changes in the independent variable.

 When more than one independent variable is considered, it is called a multiple regression

Benefits of Sales Forecasting

- Better control of Inventory
- Staffing
- Customer Information
- Use for Sales People
- Obtaining Financing

Limitations of Sales Forecasting
Part hard fact, partguesswork
Forecast may be wrong
Times maychange

THANK YOU