MANAGERIAL ACCOUNTING

LEARNING OBJECTIVES

At the end of the session students should be able to:

- Understand the purpose of managerial accounting
- Perform forecasting
- Create different budgets statements
- Perform standard cost and variance analysis

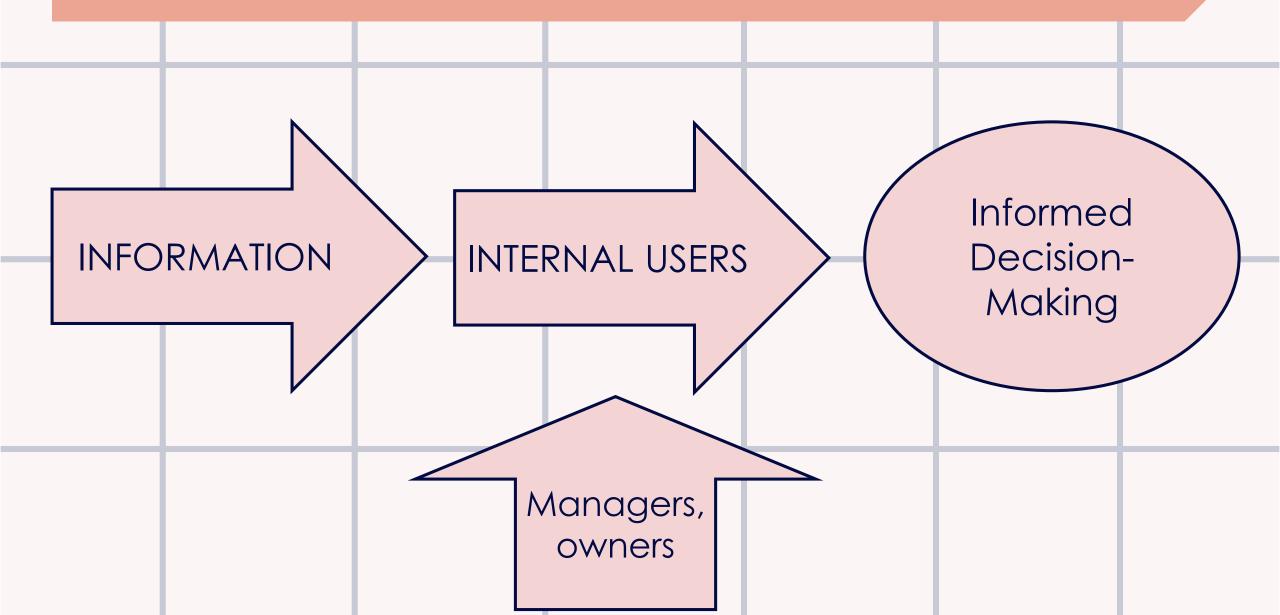
QUESTIONS ASKED BY INTERNAL USERS

Management

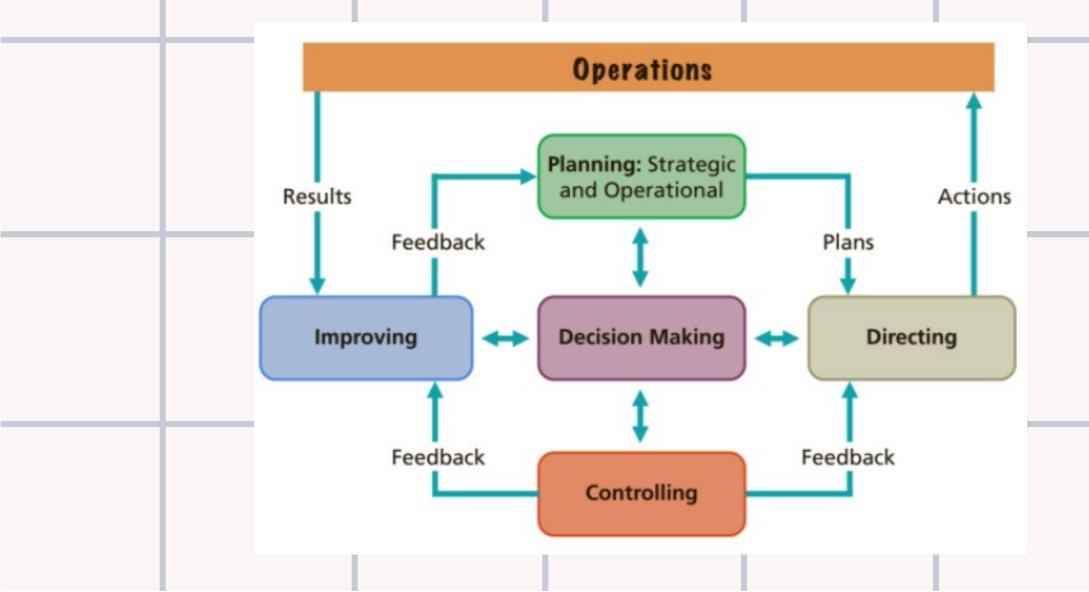
Is cash sufficient to pay dividends to Finance wht Cosmetics shareholders? What price should **wht** charge for a lipstick to Marketing maximize the company's net income? Can wht afford to give its employees HR pay raises this year?

> O Which wht product line is most profitable? Should any product lines be eliminated?

MANAGERIAL ACCOUNTING



MANAGERIAL PROCESS



PLANNING

To develop the company's objectives

Objectives -> action







DIRECTING

Process how managers run daily operations



CONTROLLING

- Expected results vs. Actual operating results
- Feedback allows remedial action and revision of plans

IMPROVING

 Continual improvement of employees, business process, and products

To eliminate the source of problems in a process

DECISION MAKING

Inherent in the preceding management process

Controlling

Planning

Directing

Improving

BUDGETING

BUDGET

- An accounting device used to plan and control resources of operational departments and divisions
- A formal written statement of management's plan for a future time period, expressed in financial terms

BUDGETING AND ACCOUNTING

Accounting information is necessary in the budgeting

process

OBJECTIVES OF BUDGETING Planning Controlling Directing Feedback

USES OF BUDGET

- 1. Allocating of resources to different department
- 2. Forcing managers to think long term
- 3. Coordinating the activities of different departments
- 4. Evaluating managerial performance

THE MASTER BUDGET

MASTER BUDGET

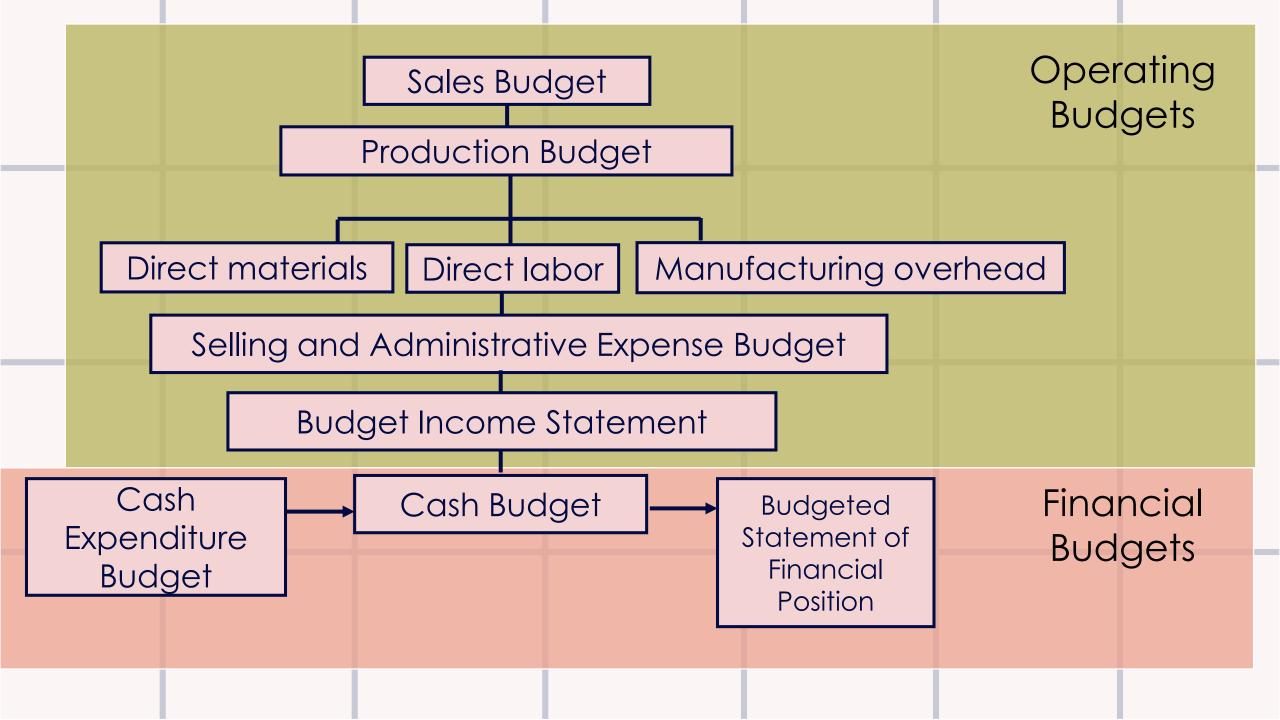
Series of inter-related budget towards organization goal

A. Operating Budget

For goals for the company's sales and production personnel

B. Financial Budget

 Cash resources for funding of expected operations and planned capital expenditures



SALES BUDGET

- Foundational budget
- Indicates for each product the quantity of estimated sales
 - and the expected unit selling price
- o Past sales volumes are often used as a starting point (sales

forecast)

SALES FORECASTING

- Process of estimating what the business's sales are going to be in the future
- Easier for established business
- Estimate of how much of the company's output can be
 - sold in a particular time frame

FORECASTING PROCESS

Qualitative Methods Quantitative Methods

Rely on opinions of experts and predictions of the

future

If environment is
 predictable and past
 data are available

QUALITATIVE FORECASTING

- A method of drawing from past experiences and perceptions to form expectations of future behavior
- Opinions of experts, decision makers or customers
 - Collect applicable recollections of the query
 - Weigh their pertinence and apply value
 - Derive expectations of what lies ahead

QUALITATIVE FORECASTING METHODS

- 1. Executive Opinion
- 2. Sales Force Estimates
- 3. Consumer surveys
- 4. Delphi Method

DELPHI METHOD

Consensus Panel

o To bring the experts together in a room and let them discuss an event until a consensus emerges.

Delphi Method

Confronts the
 problem of obtaining
 a combined forecast
 from a group of
 experts.

Due to group dynamics, one person with a strong personality can have an enormous effect on the forecast.

DELPHI METHOD

Iterative group process allows experts to make forecasts without meeting face-to-face

Participants are typically 5-10 experts who make the forecast

Staff personnel assist by preparing, distributing, collecting, and summarizing a series of questionnaires and survey results

After three or four passes through this process, a consensus forecast typically emerges.

QUANTITATIVE FORECASTING

- A method of using known data to construct a formula that can be used to estimate a future scenario.
- Historical data from time series or correlation information
- More scientific
 - Collect pertinent historical data
 - Weigh the value of each variable
 - Mathematically derived expectation

QUANTITATIVE FORECASTING METHODS

- 1. Naive Approach
- 2. Moving Averages
- 3. Exponential Smoothing
- 4. Trend Projection
- 5. Excel Forecast Sheet

NAÏVE APPROACH

Use of last period's actual sales to forecast this period's

sales

o $Forecast_{today} = Sales_{last period}$

MOVING AVERAGES

- Average of a subset of numbers to get an overall idea of
 - trends in a data set
- For long-term trends forecasting

EXPONENTIAL SMOOTHING

A time-series forecasting method using the weighted sum

of recent past observations

Exponential Smoothing Formula:

$$F_t = \alpha A_{t-1} + (1 - \alpha)F_{t-1}$$

Where:

F, is the forecast demand for week t

α is the smoothing constant

At-1 is the previous period's actual demand

 F_{t-1} is the previous period's forecast demand

TREND PROJECTION

- Assumes that the factors that affected past trends will be
 - the same in the future
- One method is the Fitting Trend Equation

COMPARISON OF ERRORS FOR SEPTEMBER 2019 FORECAST

32.01% 24.01% 24.59% 19.56%			Exponential Smoothing	Trend method
	32.01%	24.01%	24.59%	19.56%

SALES BUDGET

2 Important Data from Marketing:

- 1. Units to be sold
- 2. Selling price per unit

SALES BUDGET

 Prepared by multiplying the expected unit sales volume for each product by its anticipated unit selling price

PRODUCTION BUDGET

Number of units of a product to produce to meet

anticipated sales demand

2 Important Data from Sales:

1. Sales need

2. Desired ending inventory

PRODUCTION BUDGET

Required Production Units

Budgeted Sales Units Desired
Ending
Finished
Goods Units

+

Beginning Finished Goods Units

CASH BUDGET

Shows anticipated cash flows

3 sections:

- 1. Cash receipts
- 2. Cash disbursements
- 3. Financing

CASH BUDGET

Cash Receipts

 Expected receipts from the company's principal source/s of revenue

Cash Disbursement

Expected cash payments

Financing

 Expected borrowings and repayment of borrowed funds plus interest

STANDARD COSTS & VARIANCE

STANDARD COSTS

 Pre-determined unit costs, which companies use as measures of performance

Advantages of Standard Costs

- 1. Facilitate management planning
- 2. Make employees more cost-conscious
- 3. Useful in setting selling prices
- 4. Provide basis for evaluation of cost control
- 5. Simplify costing and reduce clerical costs
- 6. Useful in highlighting variances in management

TOTAL STANDARD COST PER UNIT

 Pre-determined unit costs, which companies use as measures of performance

> Standard Cost

Standard
Quantity

X

Standard Price

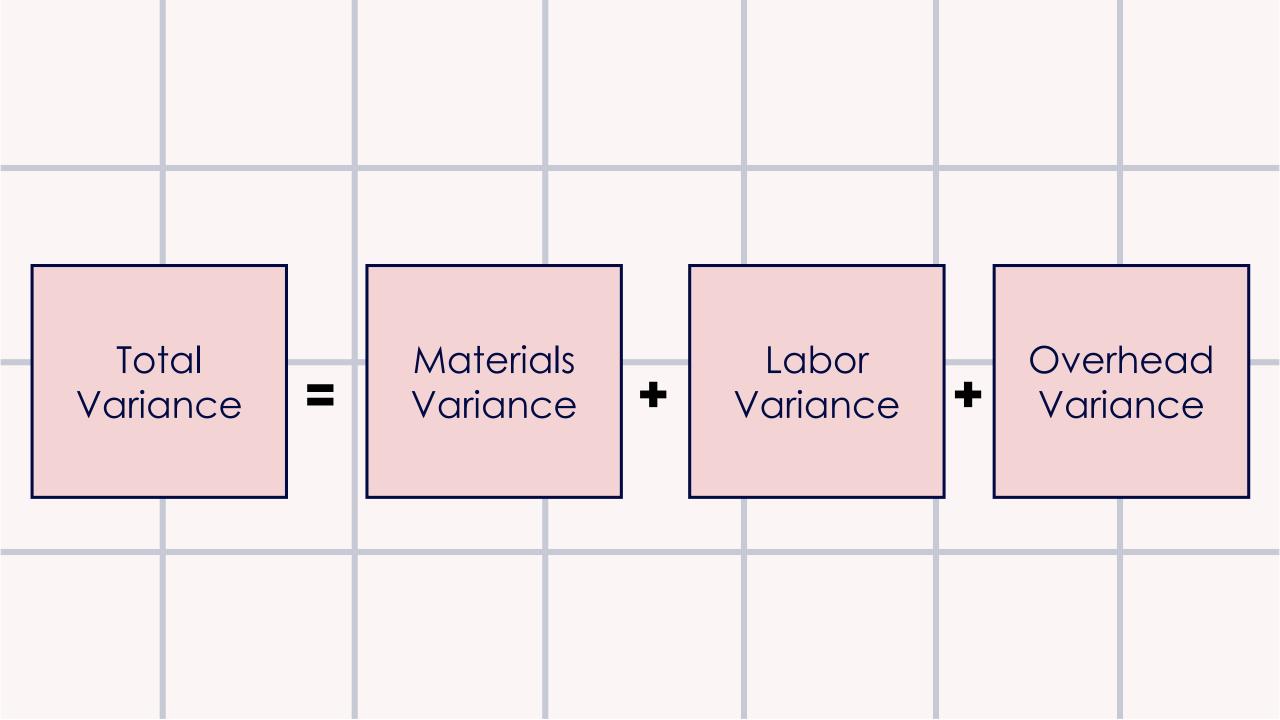
VARIANCE

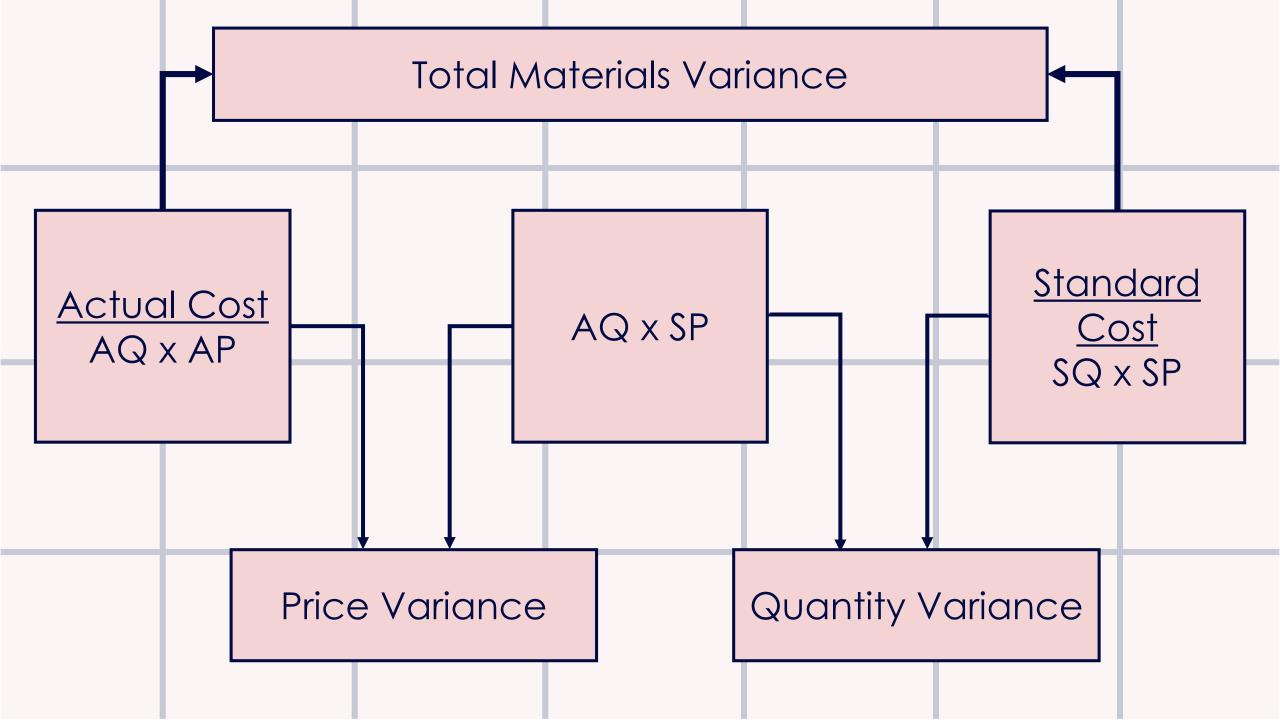
- Differences between total actual costs and total standard costs
- Also, differences between total budgeted and total

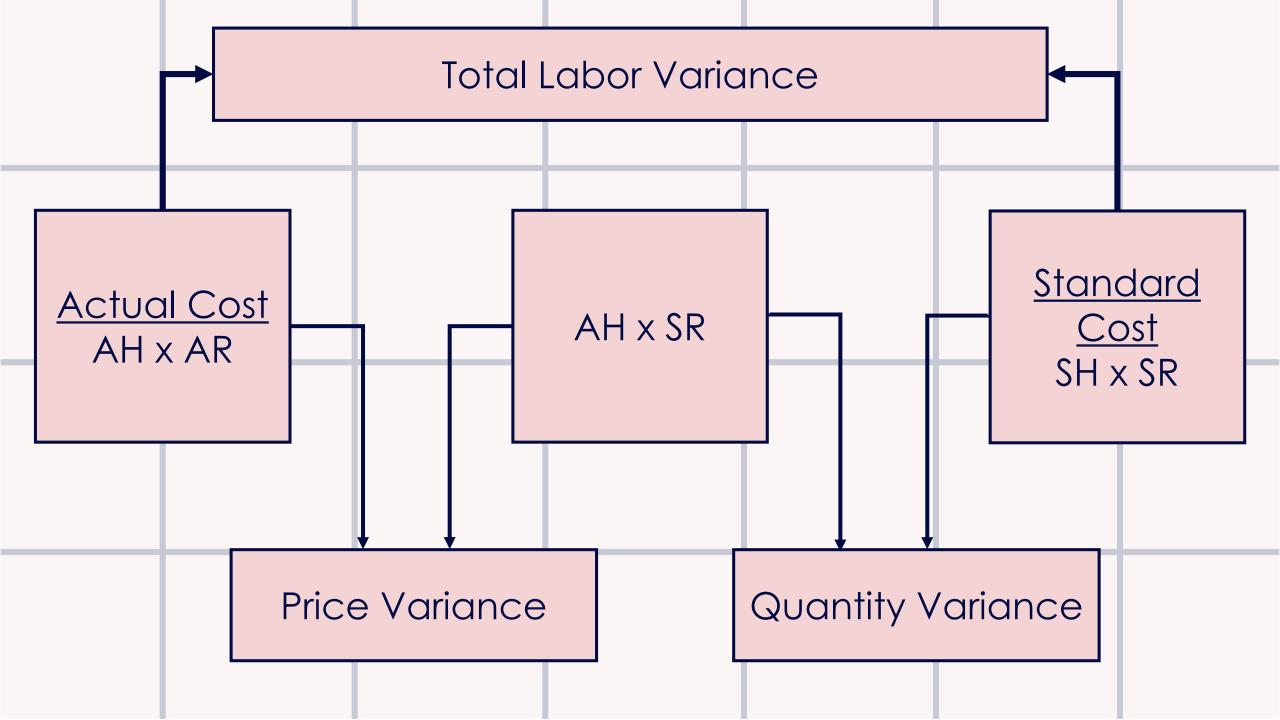
actual costs

Unfavorable

Favorable







REFERENCES

Warren, et al. (). Financial & Managerial Accounting.

Weygandt, J. J., Kimmel, P. D., & Kieso, D. E. (2019).

Accounting Principles with International Financing Reporting Standards GE. John Wiley & Sons, Inc.: Singapore.