Management Accounting

PRACTICAL CLASS 19





Variance Analysis

BUDGET RECONCILIATION AND VARIANCE ANALYSIS



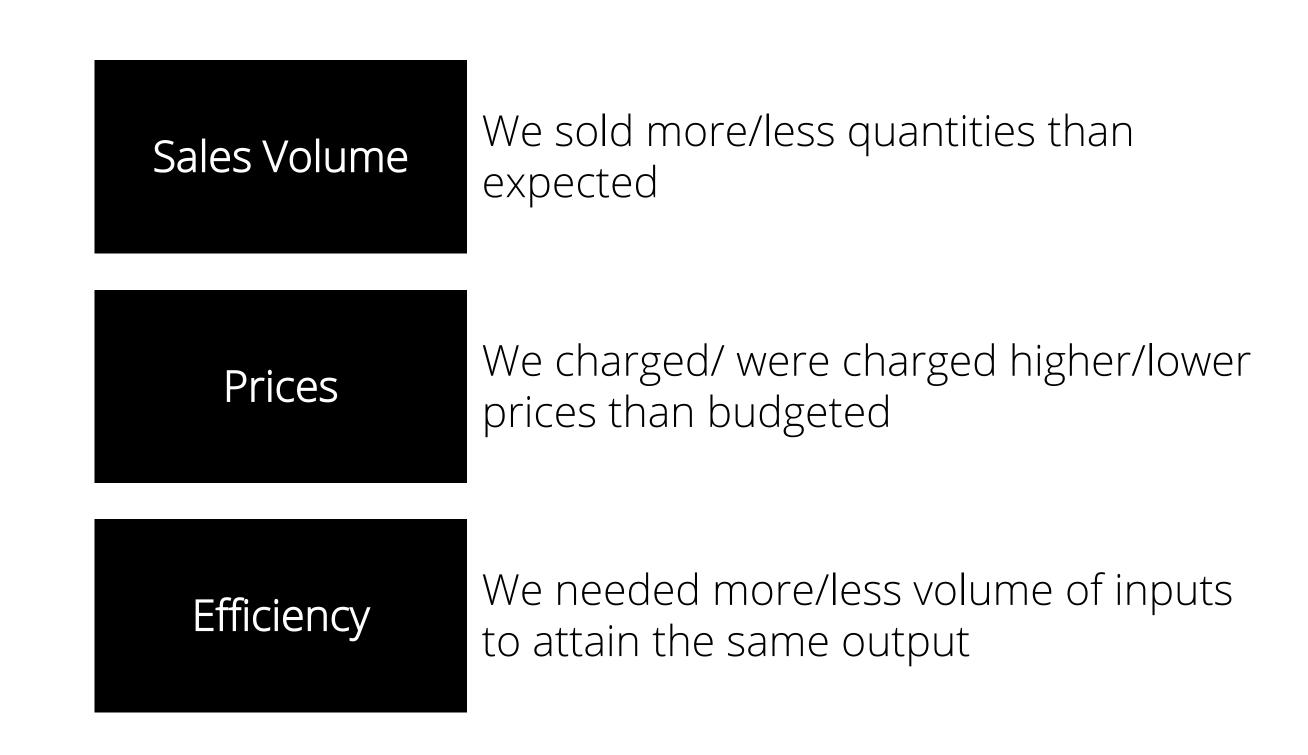
Variance Analysis

PLANS... FAIL

Even with all the knowledge in the world, it is still impossible to accurately predict the future and the budgets will deviate from the reality

Afterwards, we must understand where did our plan/budget deviated from the reality. The Why Matters!

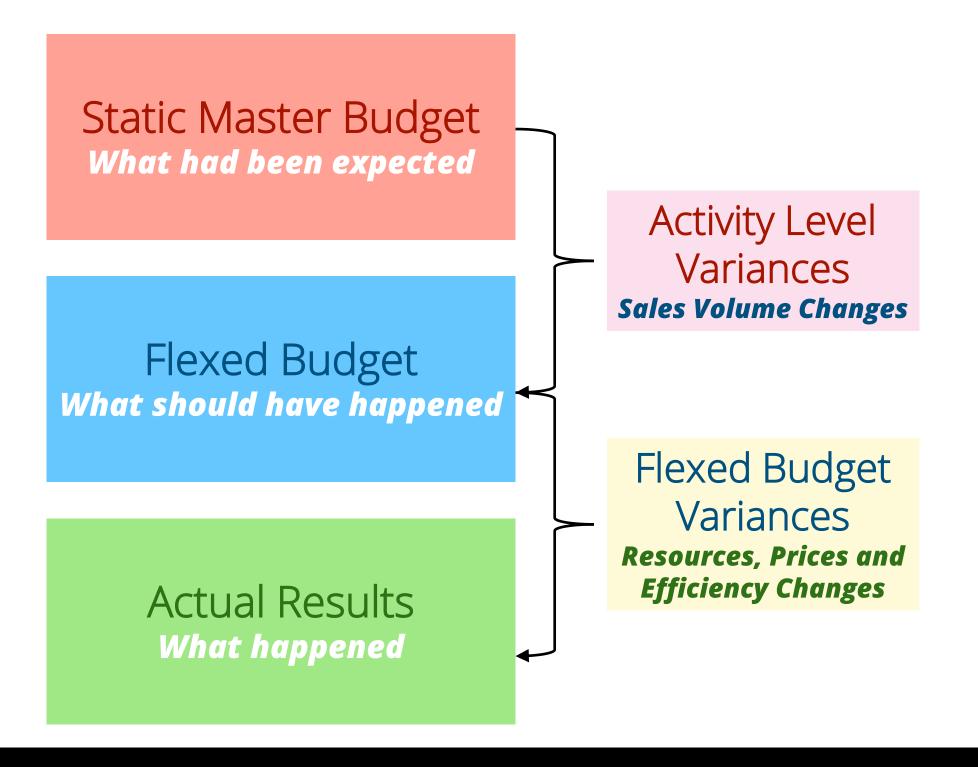
There are 3 things that explain variance:





The Framework

HERE'S HOW WE ADDRESS THE ISSUE



Steps to Variance Reconciliation

- 1) Flex the Budget
- 2) Calculate all Variances
 - Sales Margin Volume Variance
 - Sales Price Variance
 - Variable Costs Variance
 - Fixed Costs Variance
- 3) Analyse the Variances
- 4) Reconcile Budget and Actual Profit
- 5) Investigate Significant Variances
- 6) Implement Corrective Actions



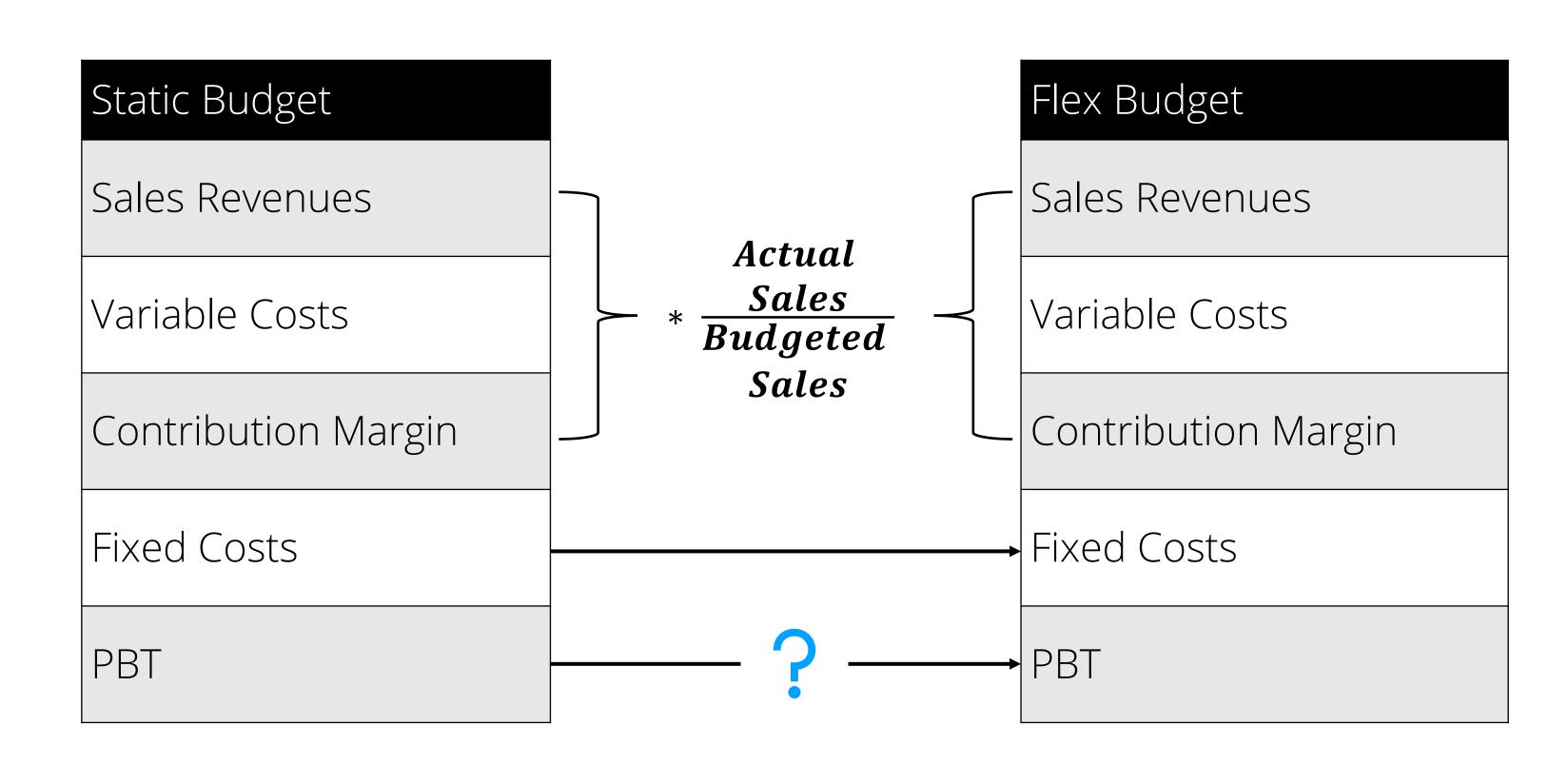
The Flex Budget

LET'S START WITH THE FORMULAS

Adjust all the lines that depend on the Quantity Sold!

Do not change Fixed Costs!

Bonus: Can you produce an expression that gives you the change in profit between static budget and flex?





IN REALITY, IT IS JUST 4 FORMULAS ©

Sales Margin Volume Variance

 $(Sales\ Volume_{Actual}\ - Sales\ Volume_{Static}) * CM\ Unit_{Budget}$

Sales Price Variance

 $(Sales\ Price_{Actual}\ - Sales\ Price_{Budget})*Sales\ Volume_{Actual}$

Cost Price Variance

 $(Price_{Budget} - Price_{Actual}) * Volume_{Actual}$

Cost Usage Variance

 $(Volume_{Flex} - Volume_{Actual}) * Price_{Budget}$



BUCKLE UP, SOME FORMULAS 1/3 ©

Sales Margin Volume Variance

 $(Sales\ Volume_{Actual}\ - Sales\ Volume_{Static}) * CM\ Unit_{Budget}$

Sales Price Variance

 $(Sales\ Price_{Actual}\ - Sales\ Price_{Budget})*Sales\ Volume_{Actual}$

Materials Price Variance

 $(Materials\ Price_{Budget}\ - Materials\ Price_{Actual})* Materials\ Volume_{Actual}$

Materials Usage Variance

 $(Materials\ Volume_{Flex}\ - Materials\ Volume_{Actual})* Materials\ Price_{Budget}$



BUCKLE UP, SOME FORMULAS 2/3 ©

Wage Rate Variance

 $(Wage\ Rate_{Budget}\ - Wage\ Rate_{Actual}) * Labour\ Hours_{Actual}$

Labour Efficiency Variance

 $(Labout\ Hours_{Flex}\ - Labour\ Hours_{Actual})*Wage\ Rate_{Budget}$

Fixed Overheads Variance

 $(Fixed\ Overheads_{Budget}\ -Fixed\ Overheads_{Actual})$

Variable Overheads Expenditure Variance

 $(Price_{Budget} - Price_{Actual}) * Volume_{Actual}$



BUCKLE UP, SOME FORMULAS 3/3 ©

Variable Overheads Efficiency Variance

 $(Volume_{Flex} - Volume_{Actual}) * Price_{Budget}$

For Multiple Products

Sales Margin Volume Variance

 $(Sales\ Volume_{Actual}^{X}\ -Sales\ Volume_{Static}^{X})*CM\ Unit_{Budget}^{X},$ for product X

Sales Mix Variance

 $(Mix \%_{Actual}^{X} - Mix \%_{Budget}^{X}) * Total Sales Volume_{Actual} * CM Unit_{Budget}^{X}$, for product X

Sales Quantity Variance

 $(Total\ Sales_{Actual} - Total\ Sales_{Budget})*Mix\%_{Budget}^X*CM\ Unit_{Budget}^X,$ for product X



Reconciling the Budget

THE END GAME

Formulas are constructed in such a way that positive variances are **favourable** to the firm (i.e. more profit) and **negative** variances are **unfavourable** to the firm

Hence, joining all the variances we can get from the budgeted profit to the actual profit, with a clear understanding of the changes!

Static Budget Profit

+ SMVV

Flex Budget Profit

+ All Price Variances

+ All Volume Variances

Actual Profit

Changes in Sales Volume

Changes in Unit Prices/Costs

Changes in Efficiency



Exercise 64

TÁXIS PÉLIGEIRO



Exercise 67

THE HAPPY COMPANY



Exercise 68

FAST & SAFE TRANSPORT

