# APPLE PRODUCT SALES ANALYSIS

#### KEY PERFORMANCE INDICATORS

#### Revenue KPIs

- **Total Revenue**:  $\sum (Price \times Quantity)$  across all sales
- **Revenue by Product Category**:  $\sum (Price \times Quantity)$  grouped by category
- **Revenue by Product**:  $\sum (Price \times Quantity)$  for each product
- **Example 2** Revenue by Store:  $\sum (Price \times Quantity)$  grouped by store location
- **Revenue by Country**:  $\sum (Price \times Quantity)$  grouped by country
- Revenue Growth:  $\frac{CurrentPeriodRevenue-PreviousPeriodRevenue}{PreviousPeriodRevenue} \times 100\%$

## **Sales Performance KPIs**

- ightharpoonup Total Units Sold:  $\sum (Quantity)$  across all sales
- ightharpoonup Units Sold by Category:  $\sum (Quantity)$  grouped by product category
- ightharpoonup Units Sold by Product:  $\sum (Quantity)$  for each product
- ightharpoonup Units Sold by Store:  $\sum (Quantity)$  grouped by store location
- ightharpoonup Average Units per Transaction:  $\frac{TotalUnitsSold}{Number of Transactions}$
- Best-Selling Period: Temporal analysis identifying peak sales periods

#### **Product Performance KPIs**

- Product Popularity Ranking: Products ranked by units sold
- New Product Performance: Sales metrics for products launched within last 12 months
- ightharpoonup Product Price Elasticity:  $rac{\%Change in Quantity}{\%Change in Price}$
- Product Lifecycle Performance: Sales trends from launch through maturity
- Seasonal Product Performance: Identification of seasonal sales patterns

## Store Performance KPIs

- Store Revenue Ranking: Stores ranked by total revenue
- ightharpoonup Average Transaction Value by Store:  $\frac{StoreRevenue}{Number of StoreTransactions}$
- lacktriangleq Store Efficiency: Revenue per square foot:  $\frac{StoreRevenue}{StoreSquareFootage}$

- **Store Product Mix**: Category distribution of sales by store
- Store Customer Retention: Repeat customer rate by location

## Warranty and Service KPIs

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- ightharpoonup Warranty Claim Rate by Category:  $rac{CategoryWarrantyClaims}{CategorySales} imes 100\%$
- $\triangle$  Average Time to Claim: AVG(ClaimDate SaleDate) in days
- Repair Status Distribution: Percentage breakdown of claim resolutions
- ightharpoonup Warranty Cost Ratio:  $rac{WarrantyServiceCosts}{TotalRevenue} imes 100\%$
- Repeat Claim Rate: Percentage of products with multiple claims

#### **Customer Behavior KPIs**

- ightharpoonup Customer Lifetime Value: AveragePurchaseValue imes PurchaseFrequency imes Customer Lifespan
- Purchase Frequency: Average time between customer purchases
- Cross-Category Purchase Rate: Percentage of customers buying across multiple categories
- Post-Warranty Purchase Behavior: Impact of warranty experience on future purchases

### Market Analysis KPIs

- ightharpoonup Market Penetration by Region:  $rac{RegionalSales}{RegionalMarketPotential} imes 100\%$
- Price Point Analysis: Sales distribution across price ranges
- **△** Competitive Position: Performance relative to competitors

#### **Financial Performance KPIs**

- ightharpoonup Inventory Turnover Rate:  $\frac{COGS}{AverageInventory}$
- ightharpoonup Return on Investment (ROI):  $\frac{NetProfit}{Investment} \times 100\%$
- ightharpoonup Cash Conversion Cycle: DIO + DSO DPO
- **☑** Break-Even Analysis: Sales volume needed to cover costs
- ightharpoonup Economic Value Added (EVA):  $NOPAT (Capital \times WACC)$

## **Implementation Notes**

These KPIs provide a comprehensive framework for analyzing Apple's business performance across sales, products, stores, warranty services, and customer behavior. They enable data-driven decision making for product development, pricing strategy, store operations, and customer service improvements.

For optimal implementation, these metrics should be:

- Tracked consistently over time
- Visualized through interactive dashboards
- Segmented by relevant dimensions (time, geography, product)
- Compared against established benchmarks and targets
- Reviewed regularly by cross-functional teams