

# **Project Management Metrics and Business Key Performance Indicators (KPIs)**

## **Project Management Metrics**

Actual Cost (AC) or Actual Cost of Work Performed (ACWP): Monetary value. Amount spent on the project as of a reporting date.

**Cost of Managing Processes:** Monetary value. Provides an overview of time and resources used for project management and supervision. A high value can indicate excessive or inefficient project management.

**Cost Performance Index (CPI):** Ratio. Shows time behind or ahead of an approved project schedule.

**Cost Variance (CV):** Monetary value. Indicates if the estimated project cost is below or above the baseline as planned. Often noted as Planned Budget vs. Actual Budget.

Earned Value (EV) or Budgeted Cost of Work

Performed (BCWP): Monetary value. The approved
budget for all performed work as of a reporting date.

**Missed Milestones:** Count or percentage. Shows how many milestones miss their scheduled date. Often used as an additional input for status stoplight dashboards (green, yellow or red).

Overdue Project Tasks: Count or percentage. Shows how many tasks are overdue. Often used to set status colors (green, yellow or red) based on predetermined levels. Sometimes referred to as "Crossed Deadlines."

Planned Hours of Work vs Actual Situation: Count or percentage. Shows how many tasks are overdue. Often used to set status colors (green, yellow, or red) based on predetermined levels. Sometimes referred to as "Crossed Deadlines."

**Planned Value (PV) or Budgeted Cost of Work Scheduled (BCWS):** Monetary value. The estimated planned project costs as of a reporting date that shows if spend is on or off budget. Typically calculated as PV = (percent tasks remaining) x (project budget).

**Projects Cancelled:** Percentage. Compares aggregate cancelled project activity. Useful for planning project activity over a multiyear period to determine capacity and resource planning.

**Projects Completed on Time:** Percentage. Compares aggregate completed project activity. A benchmark for many companies is to keep this value above 80 percent.

**Resource Utilization:** Percentage. Indicates actual use of human resources compared to potential capacity. Often connected to billable hours vs. nonbillable (bench or administrative) time.

**Return on Investment (ROI):** Ratio. Calculates project profitability and if benefits exceed cost.

**Schedule Performance Index (SPI):** Ratio. Determines if a project is behind or ahead of schedule. SPI = (Earned Value)/(Planned Value).

**Schedule Variance (SV):** Monetary value. Determines variation (negative or positive) from the planned budget for a project.

**Tasks Complete:** Percentage. Simple calculation of number of tasks finished as a percentage of planned tasks. May or may not be weighted to task complexity.



## **Business Keys Performance Indicators (KPIs)**

#### **Finance**

Accounts payable current

Accounts payable process cost

Accounts payable turnover

Accounts receivable current

Accounts receivable turnover

Accounts receivable turnover

Budget creation cycle time

Budget iterations [number]

Budget line items [number]

Budget variance

Burn rate

Cost of managing business

Current ratio

Debt to equity ratio

Finance error report

Finance function total cost

Internal audit cycle time

Inventory turnover

Net profit margin

Operating cash flow

Payment error rate

Payroll headcount ratio

Quick ratio—acid test

Resource utilization

Return on equity

Vendor expenses

Working capital

## Manufacturing

Capacity utilization rate

Capital equipment expense per plant revenue [percent]

Labor expense per COGS [percent]

Machine time per order lead time [percent]

Machine uptime

Materials and components per plant revenue

[percent]

Overall equipment effectiveness

Part sales per plant revenue [percent]

Product sales per plant revenue [percent]

Production run setup time

Recordable incident rate

Scrap expense per plant revenue [percent]

Scrap rate

Service sales per plant revenue [percent]

Utilities expense per plant revenue [percent]

### **Sales**

Asset turnover ratio—sales to assets

Calls handled per representative—inbound

Calls handled per representative—outbound

Customer engagement level

Customer lifetime value per customer profitability

Customer turnover rate

Lead cost per channel

Leads or prospects new [monthly]

Leads qualified [number]

Lead-to-close rate across all channels

Lead-to-sale conversion rate

New client acquisition cost per channel

Order value [average]

Product or service usage [daily]

Purchase value [average]

Quotes per orders [number per month]

Relative market share

Resources spent per client—paying or nonpaying

Sales [hourly, daily, weekly, monthly, quarterly, annual]

Sales by lead source

Sales conversion time [average]

Sales demos [monthly number]

Sales growth [monthly]

Sales per new customers [monthly]

Sales per representative

Sales reps per \$X revenue

Sales total from existing customers [percent]

Sales volume per customer [annual average]

Sales volume per customer [monthly average]

Shopping cart abandonment rate [percent]

Shopping carts abandoned [number]

### **Supply Chain**

Asset utilization rate

Back order rate

Carrying cost of inventory

Days on hand: finished goods

Days on hand: raw materials

Defect rate

Inventory accuracy

Inventory on hand

Inventory shrinkage

Inventory to sales ratio

Inventory turns

Material acceptance rate

Order accuracy

Order fulfillment lead time

Perfect order rate

Raw materials expense per

COGS [percent]

Safety stock levels

Stocking levels

Supply queues and wait times

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