KEY PERFORMANCE INDICATORS: CONSTRUCTION INDUSTRY

RSM

Fin/Ops Metrics

Cash

- # Day cash on hand / quick ratio
- # Cash conversion cycle
- # Time to produce ST cashflow
- # Gross cash burn rate
- % Cash or checks to electronic format

Payroll

- # Cycle time to process payroll
- # Payroll disbursements per FTE
- % Time records submitted online
- % Employees using direct deposit
- % Timesheets created w/o an error

Sales

- % Sales growth (include by type)
- # Sales pipeline velocity
- % Lead conversion rate
- % Marketing/Sales qualified leads
- 5 Sales revenue over time

Procurement

- # Purchase order cycle time
- % Supplier/vendor performance rate
- # Product lead times by vendor
- % Cost savings from procurement
- % Supplier diversity
- % Product/supplier concentrations

Human Resources

- # Time to fill a vacant position (days)
- # Employee turnoverrate
- \$ Total cost per new hire
- % Time spent absent from work
- % Time on training/development

Collections

- # Days sales outstanding
- # Cycle time from invoice to payment
- % Uncollectable to AR and revenue
- # Current AR ratio
- % Error free invoices and receipts

Payment

- % Invoices paid on time
- % Discounts available taken
- # Cycle time to enter invoices
- # Cycle time from invoice to payment
- # Invoices processed per FTE

Accounting

- # Working capital ratio
- % Gross profit margin
- % EBITDA margin
- # Operating cash flow ratio
- # Labor multiplier
- % Budget to actual variance

Information Technology

- % Downtime for unplanned outages
- # Mean time to repair
- % Change success rate
- # Security breach/incident frequency
- # Response time to user requests
- % Application capacity utilization

Marketing

- \$ Customer acquisition costs
- % Net promoter score
- # Website traffic (time and bounce)
- # Social media engagement

- # Brand Awareness and recognition
- \$ Cost per lead

Establishment

KPI's

Quantifiable measures of performance of objectives over

SMART Objectives

Specific: Make objectives narrow Measurable: Define making progress Achievable: Make sure they are achievable Relevant: Make sure they align with your values

Time-Bound: Set an end date

Naming Conventions % Percentage of Define the Symbols





Rate of



Value of

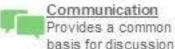
KPI Value Add

Clarity

Establish a clear

Improvement Monitoring progress toward success

Accountability Hold teams to specific goals





Focus Determines what



Efficiency Creates enhanced productivity

Visualizations



Bar chart Most useful for comparison of groups of data



Line chart Tracks changes over times



Multi Bar Chart Two or more

comparisons overtime Box Plot

Depict data distribution for various groups Sparklines



Show trends in a series of values



Descriptive

Summarize /

data features

(KPI Tracking)

describe basic

Show initial value changing overtime

Gauge Shows current status vs target expectation

Objective to KPI

- Determine Objective Increase contracts in pipeline → 15% increase in opportunities Define Successstrategy for success Determine Timeframe ->> By Fiscal Year End Responsible Party -Marketing Director
 - KPI Determination - Sales Qualified Leads (SQL) ▶ Gain 10 new SQL's per month Establish KPI(s)-

Sources of Data

Primary

Internal

External





Suppliers



Secondary

Internal

External



(64)

Corporate Strategy

Third Party

Providers



Reports Competitor Reports

Operational

Board of

Directors

Categories of KPIs

Strategic

High-level view on Company performance

Operational Short-time span focus on monthly, daily, hourly

Functional Specific to a department or function within an organization

Example KPI Detailing

objectives

KPI Quality of Closeout

Definition

Measures the time between achieving substantial completion of the project to final punch-list and billing

How to Calculate

Needed data points for the calculation include: A - Date of Completion B - Date of final billing

Calculation Formula | Type of KPI

Goal? Lower is better

Needs to Improve

> 75 days

Target Thresholds

Data Analysis Journey

(B - A)

Achieving Goal < 30 days

Diagnostic

Understand

of what

happened

the causation

Mediocre 30 - 75 days

Predictive Forecast what willhappen -50 based on a data model and review

Prescriptive Determine the factors to change to reach a specific objective

Construction Metrics

- Labor Performance
- % Labor margin
- % Labor utilization rates \$ Average revenue per hour worked
- # Hour's variance (budget to actual)
- # Labor productivity
- % Overtime usage rates

Job Performance

- # Project schedule variance
- \$ Cost performance index
- # Change order frequency \$ Planned value remaining
- % Labor utilization rates
- # Quality of job close-out
- # Change order turn around time
- % On-time service delivery \$ Backlog per employee

Quality

- # Time to rectify defects
- % Site inspection pass rates \$ Total cost of rework
- % Error rates in bid/drawing sets
- # Defects per unit of work completed % Compliance specification rate

% Warranty claim rate

- Safety # Total recordable incident rate
- # Lost time incident rate
- # Near-miss incidents
- # Safety training hours per FTE
- # Number of safety audits/inspections % PPE compliance rates

Sales / Development

- % Deal close ratio
- # Backlog remaining (months) # Average deal size
- # Proposals submitted / active
- # Time spent per proposal
- # Time to close \$ Sales pipeline by type

Equipment Performance

\$ Transportation costs of equipment

- % Equipment utilization rates
- % Percentage of equipment downtime \$ Cost to operate each machine
- # Mean time to repair

Financial Performance

- \$ Work completed but unbilled
- S Average fee per hour
- \$ Gross margin by type of work \$ Backlog per employee
- # Housing starts and permits \$ Median existing/new home price
- # Mortgage application rates # Months of supply of housing
- \$ Average hourly wage rate
- # Job openings
- % Unemployment rate
- % Average material price growth

Macro Economic

- % 30-year mortgage rates
- # Total real estate sales
- # Months of backlog
- \$ Spend by construction type