



BUSINESS INTELLIGENCE



CONSTRUCTION
PMO



PROJECT
CONTROL



INTELLIGENCE
SERVICES

May 20, 2025

CODE

BI-PMO-2025-05-001

PROFESSIONAL CONSTRUCTION PMO & PROJECT INTELLIGENCE SOLUTIONS

BUILDING BETTER DECISIONS,
DELIVERING GREATER VALUE
THROUGH DATA INTELLIGENCE

WHAT WE DELIVER (PMO SERVICE OFFERING)

P6

1. PLANNING & SCHEDULING (P6/MSP)

Detailed scheduling, budget.



2. DAILY PROJECT REPORTING SYSTEM

Digital field data to optillitics.



3. EXECUTIVE MANAGEMENT DASHBOARDS (POWER BI)

Real-time visibility to processs.



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4. RISK MANAGEMENT & PROJECT FORECASTING

Delay Carlo chart, delay risk.



5. AI PROJECT INTELLIGENCE & DECISION SUPPORT

Intelligent assistant to operation.

CONSTRUCTION PMO DASHBOARD

Project Progress (Planned vs. Actual)



Budget Variance (%)



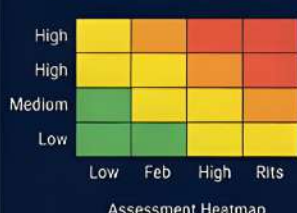
Contractor Performance



Contractor Performance



Delay Risk Assessment Heatmap



PARTNER WITH US



REDUCED
DELAY RISK



BETTER COST
CONTROL



FASTER
DECISION-MAKING



HIGHER PROJECT
PREDICTABILITY



PROFESSIONAL
PMO GOVERNANCE



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Planning & Scheduling Services

(Primavera P6 / MSP)



THE PRACTICAL PITCH

We replace "guesstimates" with structured, professional scheduling.



SAMPLE IMPACT

By defining critical paths, dependencies, and resource loading, we help you identify bottlenecks before they cause costly delays.

You get a baseline schedule that actually reflects reality, giving you clear visibility into project milestones.

SAMPLE PROJECT SCHEDULE DASHBOARD

PROJECT OVERVIEW

Total Projects	Active Projects	Completed Projects	% Planned Complete
24	14	6	68.5%

SCHEDULE PERFORMANCE

On Schedule	At Risk	Delayed	% Tasks Overdue
62.1%	21.4%	16.5%	14.8%

KEY DATES

Project Start	Data Date	Project Finish
01-Jan-2024	15-Jun-2024	30-Dec-2024

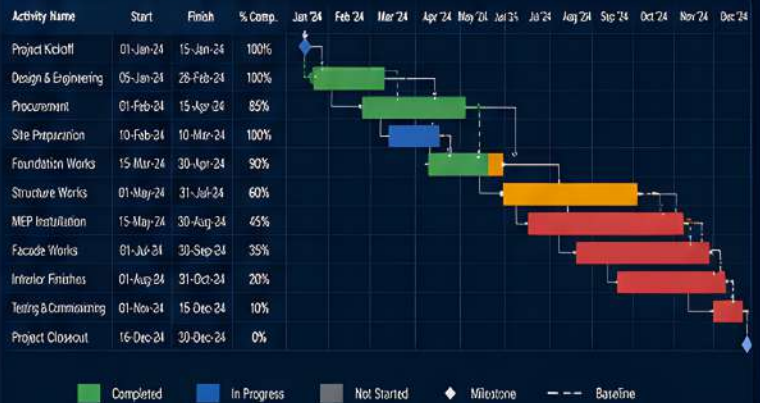
MILESTONE STATUS



TASK STATUS



PROJECT SCHEDULE (GANTT VIEW)



TOP DELAYED ACTIVITIES

Activity	Delay (Days)
Steel Structure	20
MEP Installation	15
Facade Works	12
Interior Finishes	10
Testing & Commissioning	8

RESOURCE LOADING (BY MONTH)



CRITICAL PATH ACTIVITIES

Activity	Finish
Project Kickoff	15-Jan-24
Design & Engineering	28-Feb-24
Procurement	15-Apr-24
Structure Works	31-Jul-24
Facade Works	30-Sep-24
Interior Finishes	31-Oct-24
Project Closeout	30-Dec-24

SCHEDULE HEALTH



CLEAR VISIBILITY

See the full project timeline and key milestones.



RISK REDUCTION

Identify potential delays and resolve bottlenecks early.



RESOURCE OPTIMIZATION

Balance resources effectively across project phases.



BETTER DECISIONS

Make data-driven decisions with a reliable project baseline.



Professional scheduling that drives projects forward — **on time, on budget, with confidence.**





Daily Project Reporting System

Real-time insights. One source of truth.
Better decisions, every day.

STANDARDIZED DAILY REPORTING FLOW



1. DATA CAPTURE
Site engineers & supervisors submit daily reports via mobile/web.



2. VALIDATION
Reports are reviewed and validated by project team.



3. CENTRALIZED STORAGE
All data stored in a secure, centralized platform.



4. REAL-TIME VISIBILITY
Management accesses real-time dashboards and KPI insights.



5. BETTER DECISIONS
Timely actions taken to keep projects on track.



THE PRACTICAL PITCH

Stop relying on fragmented WhatsApp updates or manual Excel files.



SAMPLE IMPACT

We implement a standardized digital reporting flow for site engineers and supervisors that covers work completed, equipment usage, and material consumption.

This ensures that management has a "single source of truth" for real-time project visibility.

DAILY REPORTING DASHBOARD

PROJECTS

24



REPORTS TODAY

18



WORK COMPLETED

92.4%



EQUIPMENT UTILIZATION

78.6%



MATERIAL CONSUMPTION

86.1%



PENDING APPROVAL

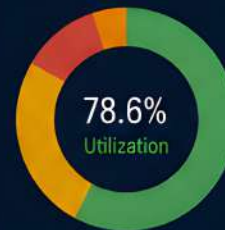
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WORK COMPLETED (BY PROJECT)

Project	% Completion
Residential Tower A	95%
Commercial Complex	92%
Industrial Plant	88%
Infrastructure Project	85%
Hospital Building	80%
Mixed-Use Development	75%

EQUIPMENT UTILIZATION (TODAY)

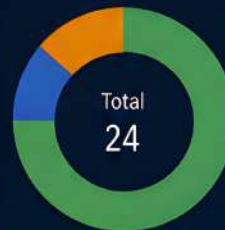


Active	52 (52.0%)
Idle	27 (27.0%)
Maintenance	16 (16.0%)
Down	5 (5.0%)

MATERIAL CONSUMPTION (TODAY)

Material	Planned (MT)	Actual (MT)	% Used
Cement	120.0	108.5	90.4% ↑
Steel	85.0	78.2	92.0% ↑
Sand	200.0	176.0	88.0% ↑
Aggregate	150.0	132.0	88.0% ↑
Bricks	50.0	42.5	85.0% ↑
Block	30.0	27.0	90.0% ↑

REPORT SUBMISSION STATUS



Submitted	18 (75.0%)
Approved	3 (12.5%)
Pending	3 (12.5%)

RECENT DAILY REPORTS

Date	Project	Reported By	Work Completed	Equipment Used	Material Consumed	Status
15-May-2024	Residential Tower A	Site Engineer	Concrete work – L9	2 Excavators, 1 Crane	12.5 MT Steel, 8.2 m³ Concrete	Approved
15-May-2024	Commercial Complex	Supervisor	Formwork – L4	1 Crane, 2 Mixers	9.8 MT Steel, 6.5 m³ Concrete	Approved
15-May-2024	Industrial Plant	Site Engineer	Steel structure erection	1 Crane, 1 Boom Lift	7.6 MT Steel	Pending
15-May-2024	Infrastructure Project	Supervisor	Excavation – Zone B	2 Excavators, 3 Dumpers	320 m³ Soil	Approved
15-May-2024	Hospital Building	Site Engineer	Brickwork – L2	—	15,000 Bricks	Pending

[View All Reports](#) →



REAL-TIME VISIBILITY

Access up-to-date project information anytime, anywhere.



ACCURATE & RELIABLE

Eliminate data duplication and manual errors with standardized reporting.



TIME SAVING

Reduce reporting time in the field and improve productivity.



BETTER COLLABORATION

Improved communication between site teams and management.



DATA-DRIVEN DECISIONS

Make informed decisions faster with trustworthy data.



One source of truth for your projects. **Real-time visibility.** Better control. Greater success.





Executive Management Dashboards (Power BI)

Real-time insights. Smarter decisions.
Stronger performance.



THE PRACTICAL PITCH

Stop digging through reports;
let the data tell you what
needs attention.



SAMPLE IMPACT

We build interactive Power BI
dashboards that answer
executive questions instantly:

- Which project is falling behind?
- What is our current budget deviation?
- Which subcontractor is impacting performance?

COST BREAKDOWN (BY CATEGORY)



EXECUTIVE OVERVIEW

TOTAL PROJECTS

24



ACTIVE PROJECTS

14



TOTAL BUDGET

\$128.4M



COST INCURRED

\$96.7M



SCHEDULE PERFORMANCE
(Avg.)

92.3%

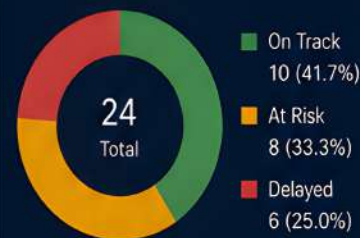


COST PERFORMANCE
(Avg.)

-6.8%



PROJECTS BY STATUS



BUDGET VS ACTUAL (TOTAL)



SCHEDULE PERFORMANCE BY PROJECT

Project	SPI (Schedule Performance Index)	Status
Residential Tower A	1.05	On Track
Commercial Complex	0.98	On Track
Industrial Plant	0.92	On Track
Infrastructure Project	0.74	At Risk
Hospital Building	0.68	Delayed
Mixed-Use Development	1.10	On Track

TOP 5 COST VARIANCE BY PROJECT

Project	Cost Variance	Variance %	Status
Infrastructure Project	-\$4.2M	-12.5%	At Risk
Industrial Plant	-\$3.1M	-8.7%	At Risk
Commercial Complex	-\$2.0M	-5.6%	At Risk
Hospital Building	\$0.6M	2.3%	On Track
Residential Tower A	\$1.2M	3.6%	On Track

SUBCONTRACTOR PERFORMANCE (Top 5 by Score)

Subcontractor	Performance Score
ABC Construction	92%
BuildPro Services	87%
Elite MEP	76%
Prime Steel Works	63%
Infra Solutions	58%

CASH FLOW TREND



KEY TAKEAWAYS



INSTANT VISIBILITY

See the health of your
projects at a glance.



EARLY WARNING

Identify risks and
delays before they
impact outcomes.



FINANCIAL CONTROL

Track budget, costs
and cash flow with
confidence.



PERFORMANCE DRIVEN

Measure subcontractor
and project performance
objectively.



DATA-DRIVEN DECISIONS

Make strategic decisions
faster with accurate,
real-time data.



Executive insights that drive results. **Data you can trust.** Decisions you can act on.



Risk Management & Project Forecasting

Predict risks. Quantify uncertainty.
Deliver confident outcomes.



THE PRACTICAL PITCH

Move from reactive firefighting to predictive intelligence.



SAMPLE IMPACT

Using techniques like Monte Carlo simulation, we provide evidence-based forecasts, such as:

- “There is an 81% confidence level in the current budget.”
- “Project completion probability is currently at 74%.”

RISK OVERVIEW

TOTAL RISKS

56



HIGH RISKS

12



MEDIUM RISKS

24



LOW RISKS

20



OVERALL RISK EXPOSURE

HIGH



RISK EXPOSURE HEATMAP

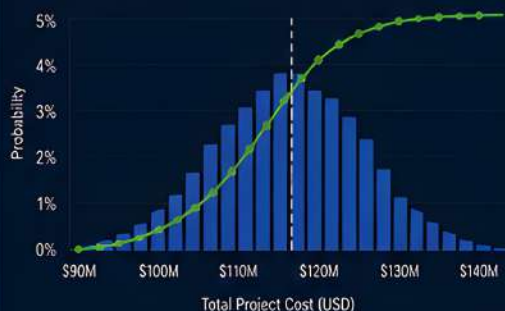
Likelihood	Impact				
	Very Low	Low	Medium	High	Very High
	0	1	1	3	2
	1	2	3	4	2
	2	3	5	3	1
	3	4	3	2	1
	2	1	1	1	0

Low (1-4) Medium (5-9) High (10-15) Very High (16-25)

TOP RISKS BY RPN (RISK PRIORITY NUMBER)

Risk	Category	Likelihood	Impact	RPN	Trend
Delay in material delivery	Supply Chain	4	5	20	↑
Design changes	Project	4	4	16	↑
Labor productivity shortfall	Resource	4	4	16	→
Weather impact	External	3	4	12	→
Equipment breakdown	Technical	3	4	12	↓

COST FORECAST (MONTE CARLO SIMULATION)



P50 (Median)

\$113.2M

P80

\$121.8M

P90

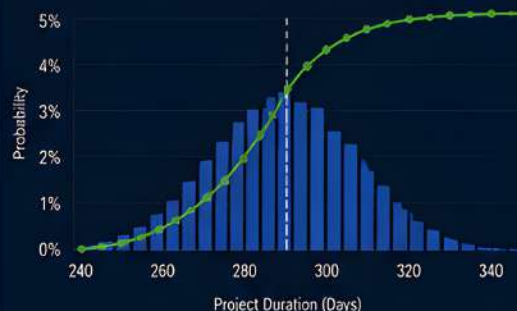
\$126.7M

Budget Confidence Level
(Within \$115M)

81%

Simulation Results Cumulative Probability Target Budget (\$115M)

SCHEDULE FORECAST (MONTE CARLO SIMULATION)



P50 (Median)

276 Days

P80

302 Days

P90

318 Days

Completion Probability
(by Baseline 270 Days)

74%

Simulation Results Cumulative Probability Baseline (270 Days)

COST CONFIDENCE LEVEL

Confidence Level	Cost
50% (Median)	\$113.2M
60%	\$116.1M
70%	\$118.7M
80%	\$121.8M
90%	\$126.7M

PROBABILITY OF COST EXCEEDANCE



Exceeding \$115M (19%)
Within \$115M (81%)

SCHEDULE CONFIDENCE LEVEL

Confidence Level	Duration (Days)
50% (Median)	276
60%	286
70%	294
80%	302
90%	318

PROBABILITY OF TIME OVERRUN



Exceeding 270 Days (26%)
Within 270 Days (74%)

DRIVER IMPACT ANALYSIS (On Project Duration)

Risk / Issue	Impact (Days)
Design Changes	+18
Permit Delays	+12
Material Delivery	+9
Weather Impact	+7
Labor Productivity	-6

KEY TAKEAWAYS



IDENTIFY EARLY

Detect potential risks before they become problems.



QUANTIFY IMPACT

Understand how risks affect cost, time, and performance.



PREDICT OUTCOMES

Use data-driven models for realistic forecasts and probabilities.



MAKE BETTER DECISIONS

Allocate resources and mitigate risks with confidence.



DELIVER SUCCESS

Stay ahead of uncertainty and keep projects on track.



Evidence-based forecasting. Higher confidence. Better control. Greater success.





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Real-time insights. Smarter decisions.
Stronger performance.



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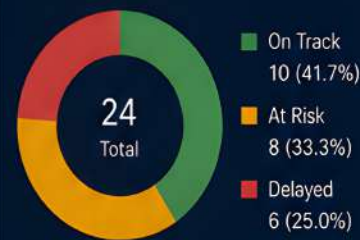


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CASH FLOW TREND



KEY TAKEAWAYS



INSTANT VISIBILITY

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projects at a glance.



EARLY WARNING

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impact outcomes.



FINANCIAL CONTROL

Track budget, costs
and cash flow with
confidence.



PERFORMANCE DRIVEN

Measure subcontractor
and project performance
objectively.



DATA-DRIVEN DECISIONS

Make strategic decisions
faster with accurate,
real-time data.



Executive insights that drive results. **Data you can trust.** Decisions you can act on.





AI Project Intelligence & Decision Support

AI-powered, intelligent project assistant. Shortcut to insights.



THE PRACTICAL PITCH

Stop manual analysis; act on prioritized insights instantly.



SAMPLE IMPACT

management can query the AI assistant to identify the highest-risk projects, expected budget overruns, or prioritized decisions for the month.

- Which project is falling behind? (RETAIN)
- Identify highest-risk projects instantly?
- Forecast budget overruns for the month?

COST BREAKDOWN (BY CATEGORY)

RISK CATEGORY DISTRIBUTION



■ Supply Chain
■ Subcontractor
■ Permitting
■ Weather

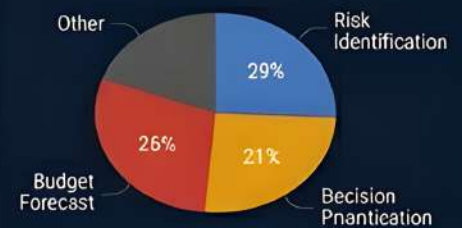
AI PROJECT ASSISTANT CAPABILITIES

TOTAL PROJECTS	ACTIVE PROJECTS	TOTAL BUDGET	COST VARIANCE	SCHEDULE PERFORMANCE	COST PERFORMANCE (PNS)
24 4.8	14	\$128.4M	\$96.7M	92.3%	-6.8%
AI TRAINED MODELS	RISK ALLETS (LAST 900)	RISK DIFFERENCE SCORE (AVG.)	QUERY RESPONSE TIME (AVG.)	DECISION ACCELERATION	FORECAST ACCURACY (AVG.)
5	35	88.5%	<2s	92.3% 2.5 days faster	94.1%

PROJECTS BY STATUS



QUERY TYPE ANALYSIS



SCHEDULE PERFORMANCE BY PROJECT

HIGHEST-RISK PROJECTS (FORECASTED)

Project	Risk	Impact Score
Residential Tower A		60
Commercial Complex		90
Industrial Plant		80
Infrastructure Project		53
Hospital Building		72
Mixed-Use Development		50

TOP 5 COST VARIANCE BY PROJECT

EXPECTED BUDGET OVERRUNS BY PROJECT

Project	Potential Overrun % of Budget
Infrastructure Project	-\$4.2M -12.5%
Industrial Plant	-\$3.1M -8.7%
Commercial Complex	-\$2.5M -3.6%
Hospital Building	\$5.6M 2.2%
Residential Tower A	\$1.2M 3.5%

SUBCONTRACTOR PERFORMANCE

AI-PRIORITIZED DECISIONS FOR THE MONTH

Project	Priority Score
Subcontractor	
ABC/Pre Services	
Elite MEP	
Prime Steel Works	
Infra Solutions	

CASH FLOW TREND

TOP 5 FORECASTED DELAYS BY CAUSE

Project	Potential Delay
Material Delivery	
Subcontractor Avail.	
Permit Process	
Design Changes	
Weather	

KEY TAKEAWAYS



INSTANT VISIBILITY

AI-powered, on-demand project clarity.



EARLY WARNING

Predict and mitigate risks proactively.



FINANCIAL CONTROL

Accurate AI forecasting for budget control.



PERFORMANCE DRIVEN

Optimize decisions for success.



DATA-DRIVEN DECISIONS

Smarter, data-backed strategic success.



Executive insights that drive results. Data you can trust. Decisions you can act on.

