

BRIDGING THE ANALYTICS GAP

Progressive Schedule Analysis in the Age of AI

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THE DOCUMENTED GAP:

"No QRA RPs on analytics methods at this time" — AACE Professional Guidance Document No. 02

THE 7-STEP PROGRESSIVE ANALYSIS FRAMEWORK

Step	Analysis	Key Question
1	Validation & WBS	Is the data structurally sound?
2	Schedule Health	Does it meet quality standards?
✓ FOUNDATION COMPLETE — Structural confidence established		
3	Schedule Comparison	What changed?
4	Longest Path Analysis	What's driving the key milestones?
5	Milestone Variance	Are we hitting key dates?
6	Gantt Visualization	What does it look like?
7	Executive Summary & Narrative	What does it all mean together?

Core Principle: Each step builds on previous findings. Foundation before analysis.

WHAT PROGRESSIVE ANALYSIS PRODUCES

SAMPLE — AI-DRAFTED CROSS-STEP FINDING (STEPS 3 + 4)

"The contractor added 14 activities to WBS 3.2 Structural Steel since the previous update. Longest path analysis identified that 3 of these newly added activities now reside on the driving path to Milestone M-100 (Structural Steel Erection Complete). This scope addition has extended the longest path by 12 working days, directly impacting the forecasted completion date per AACE RP 49R-06 critical path identification criteria."

STANDARDS REFERENCED

PMI Standards

Practice Standard for WBS — Third Edition
Practice Standard for Scheduling
PMBOK Guide

WBS Quality Attributes (PMI PS-WBS):

- Contains 100% of the work defined
- Provides graphical/hierarchical breakdown of scope
- Work packages support identification of tasks
- Includes project management as explicit work element
- Elements defined using nouns and adjectives
- Employs coding scheme identifying hierarchical nature

AACE Recommended Practices

RP 29R-03 Forensic Schedule Analysis
RP 49R-06 Identifying the Critical Path
RP 52R-06 Time Impact Analysis
RP 53R-06 Schedule Update Review
RP 78R-13 Original Baseline Schedule Review
RP 122R-22 QRA Maturity Model

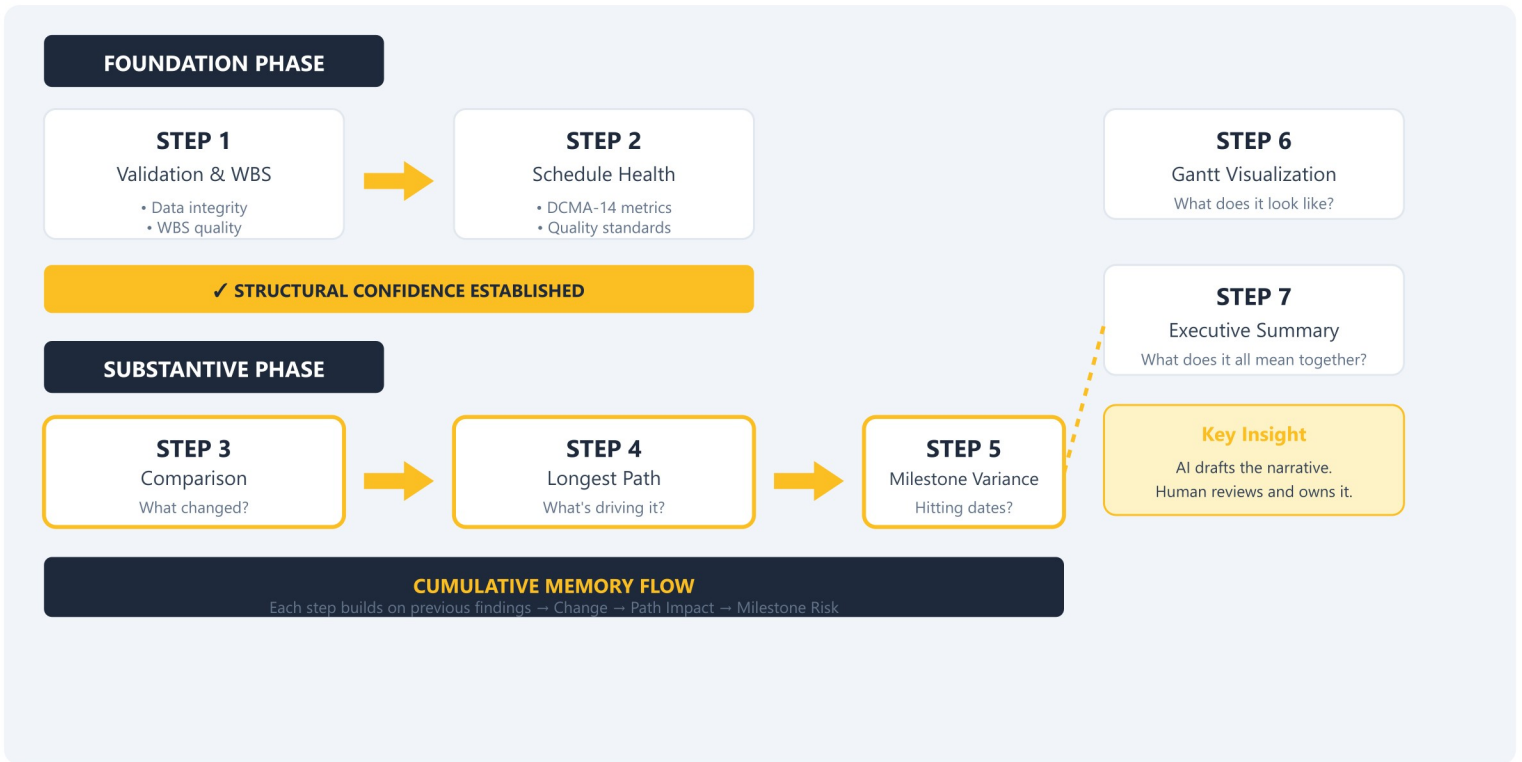
Bridging the Analytics Gap

"A schedule that passes a metrics test provides that it meets the stated limits of the parameters tested and nothing more. There are no indications if the plan is realistic, feasible, or reflects execution strategy."

KEY TAKEAWAYS

1. Passing metrics is not enough — interpretation into executable strategy is the gap.
2. Cross-step correlation amplifies insight: Change → Path Impact → Milestone Risk
3. AI augments professional judgment — it doesn't replace it.
4. Calculation accuracy is non-negotiable — must match P6 exactly.

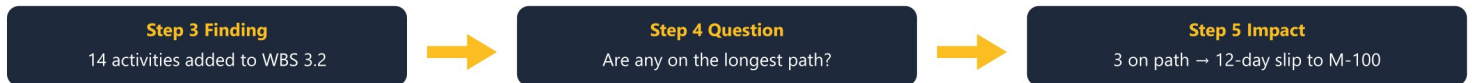
PROGRESSIVE ANALYSIS WORKFLOW



CROSS-STEP CORRELATION: THE POWER OF CUMULATIVE ANALYSIS



Example: How Findings Connect



ABOUT THE PRESENTER

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Former Primavera P6 reseller and certified instructor
Trained thousands of scheduling professionals
CPM consultant supporting owners and construction managers
Adjunct instructor — Drexel University, Rutgers, and Villanova (PM methodologies, P6)

*"The standards we have are excellent.
The challenge is consistent application.
AI can help us apply our standards consistently
— every schedule, every time."*

IPSYS ANALYTICS

Schedule review intelligence — beyond metrics.
Implements the progressive analysis framework with a focus on:

- Patent-pending progressive analysis architecture
- Exact P6 calculation parity — no approximations
- Per-step narrative generation — progress, changes, longest path, and executive summaries
- Enterprise-grade infrastructure
- PMI and AACE standards applied programmatically
- AI-assisted interpretation with human oversight
- Ask IPSYS — Schedule Analysis Advisor: context-aware Q&A grounded in schedule data and AACE/PMI standards
- SOC 2 certified providers (SOC 2 readiness in progress)

"The question isn't whether AI will change our profession — it's how we integrate it responsibly."

