Joint Analysis of Cost and Schedule (JACS)

Perform integrated cost & schedule uncertainty analysis

Joint Analysis of Cost and Schedule (JACS) is an add-in for Microsoft Project and Primavera P6 which creates probabilistic schedule and cost results. Analyst can cost-load schedule tasks, add risk events, and assign probability distributions. JACS uses ACE's RI$K calculation engine and graphical reporting capabilities to enable an analyst to view data from different perspectives. The result is a fully integrated cost and schedule model that delivers decision makers critical insight into their program.

JACS Provides Three Levels of Integration and Analysis

1. Conduct a schedule risk analysis

2. Integrate cost into the schedule risk analysis

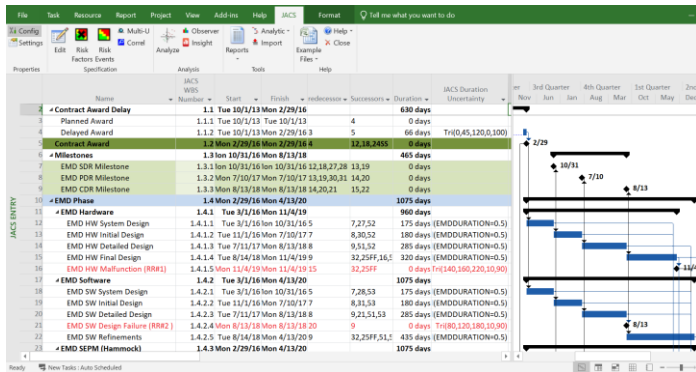3. Perform joint confidence level (JCL) analysis: uncertain cost/schedule & risk events
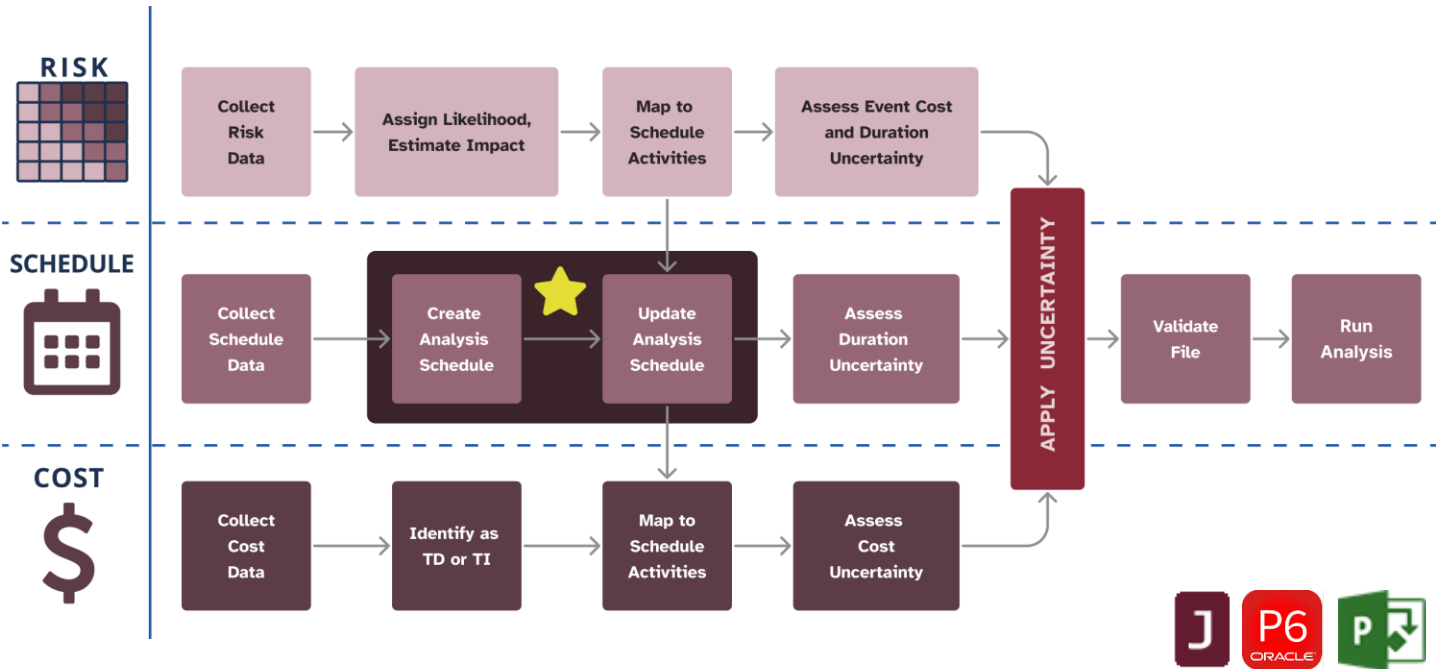
JACS Dashboard Charting Tool: Insight

View Risk Adjusted Schedules

✓ Generate updated schedules with higher confidence of completion

✓ Understand schedule drivers

Quickly view JACS top-level results in dashboard format

Customize the dashboard to your areas of interest

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TECOLOTE RESEARCH

Digital Project Model Simulation (DPMS) Process

RISK

Collect Risk Data → Assign Likelihood, Estimate Impact → Map to Schedule Activities → Assess Event Cost and Duration Uncertainty

SCHEDULE

Collect Schedule Data → Create Analysis Schedule → Update Analysis Schedule → Assess Duration Uncertainty → APPLY UNCERTAINTY → Validate File → Run Analysis

COST

Collect Cost Data → Identify as TD or TI → Map to Schedule Activities → Assess Cost Uncertainty

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Capture Uncertainties

- ✓ Durations
- ✓ Time Dependent (TD)
- ✓ Time Independent (TI)
- ✓ Risk Events/Risk Register

Concepts Covered

- ✓ Analysis Schedule
- ✓ Program Events
- ✓ Risk Events
- ✓ Risk Factors
- ✓ Critical Path
- ✓ Slack
- ✓ Cruciality
- ✓ Hammock Tasks
- ✓ Correlation
- ✓ Custom Fields
- ✓ Risk Informed Finish Threshold (RIFT)

JACS Capabilities

Charts

- ✓ Cash Flow
- ✓ Drivers
- ✓ Gantt
- ✓ Overlay
- ✓ Sand
- ✓ Scatterplot
- ✓ Contribution to Estimate - Schedule
- ✓ Contribution to Estimate - Cost
- ✓ Estimate Total Slack
- ✓ Estimate Annual Cost
- ✓ Schedule CDF vs PDF
- ✓ Cost CDF vs PDF
- ✓ Criticality Index
- ✓ Cost Cruciality Index

- ✓ Schedule Cruciality
- ✓ Correlation to Total Duration
- ✓ Correlation to Total Cost Uncertainty
- ✓ Duration Tail Contingency Delta
- ✓ Cost Tail Contingency Delta
- ✓ Cost Contributor
- ✓ Finish Date vs Total Cost
- ✓ Multi-Metric Driver
- ✓ Annual Cost Uncertainty
- ✓ Cost CDF Comparison
- ✓ Schedule CDF Comparison
- ✓ Scatter Comparison
- ✓ Criticality Index Comparison
- ✓ Convergence