

## **PRAVAHA AI-PMS**

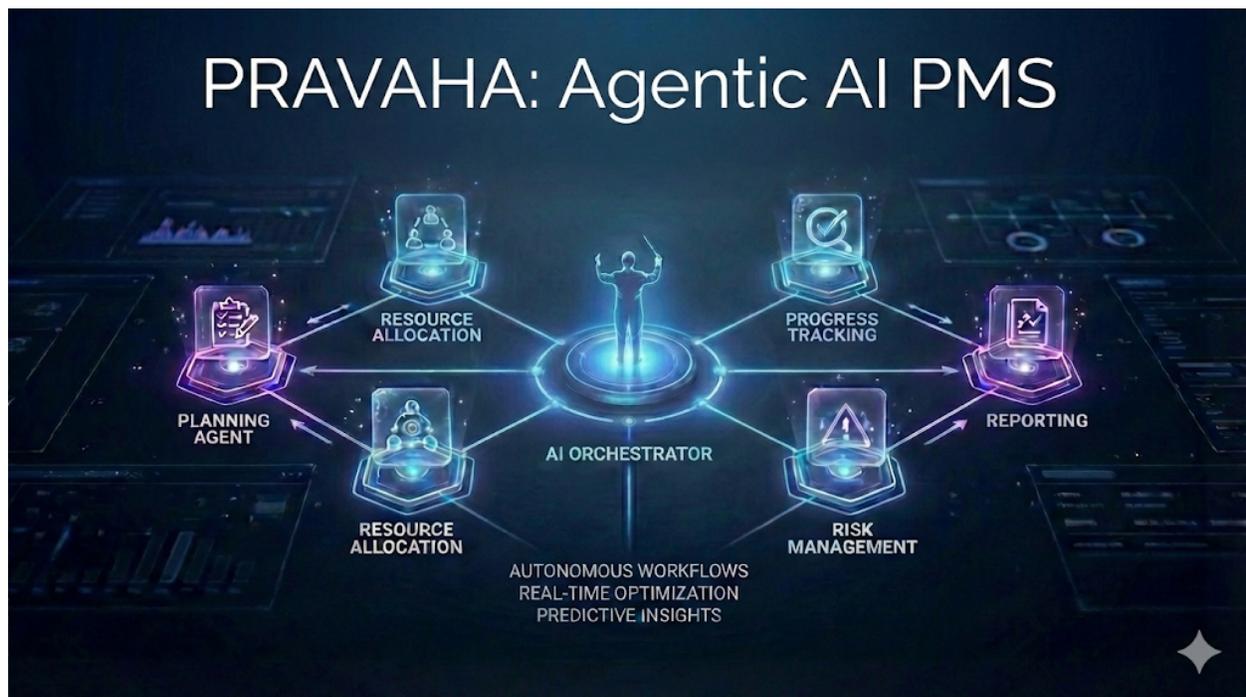
### **Agentic AI Project Management System**

#### **Your Proactive & Dynamic Digital Site Manager**

Verit AI **Pravaha** is an agentic AI based dynamic scheduling Project Management System (AI-PMS) purpose-built for active management and control of complex engineering projects.

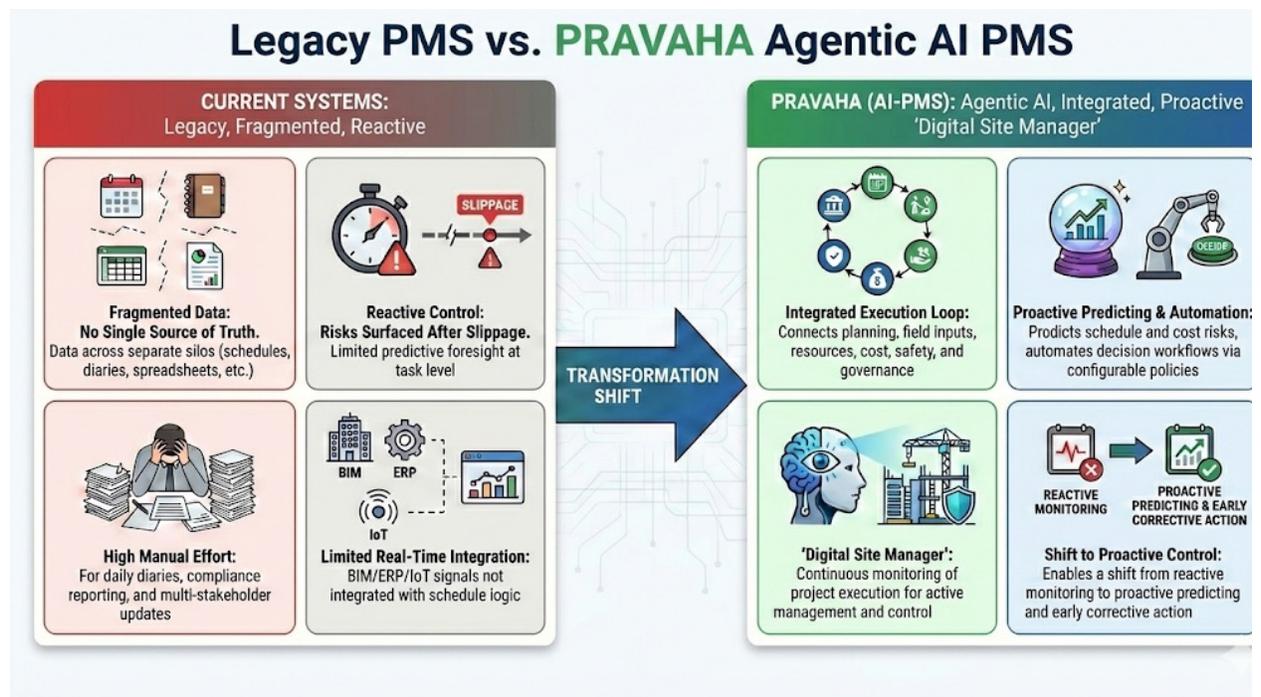
The AI-PMS is engineered to supersede legacy scheduling platforms such as Oracle Primavera and MS Project. AI-PMS is conceived as an agentic AI “digital site manager” that continuously monitors project execution, predicts schedule and cost risks, and automates decision workflows via configurable policies.

Unlike conventional tools that primarily store schedules and reports, AI-PMS creates an integrated execution loop across planning, field inputs, resources, cost, safety, and governance, enabling a shift from reactive monitoring to proactive predicting and early corrective action.



## Limitations of the Current Project Management Systems

- Fragmented data across schedules, site diaries, spreadsheets, and contractor reports; limited single source of truth.
- Reactive control: risks are surfaced after slippage occurs; limited predictive foresight at task and critical-path level.
- Manual effort for daily diaries, compliance reporting, and multi-stakeholder updates.
- Limited ability to integrate real-time signals (BIM/ERP/IoT) with schedule logic and dependency impact propagation.



AI-PMS deploys intelligent agents that ingest and unify data streams from project schedules, BIM/ERP systems, field logs, and optional IoT telemetry to compute delay and cost risk in real time, forecast outcomes, and trigger corrective workflows before non-conformance escalates.

## AI-PMS Core Modules

The AI-PMS comprises six core modules:

**M1: Project Setup & Baselineing**

**M2: Daily Execution**

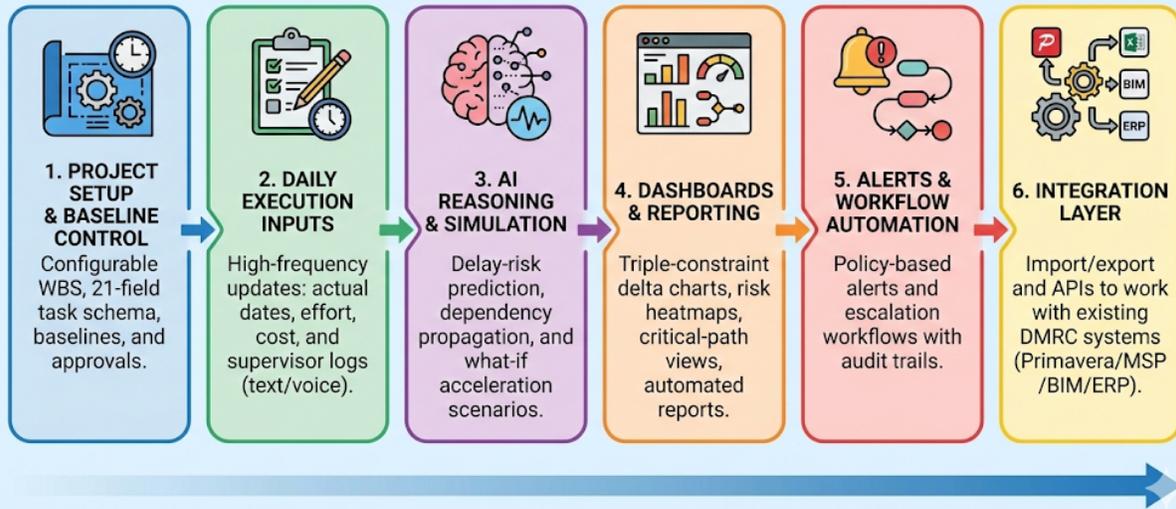
**M3: AI Reasoning & Simulation**

**M4: Dashboards & Reporting**

**M5: Alerts & Workflow Automation**

**M6: Integration Layer**

## AI-PMS CORE MODULES & CAPABILITIES



### AI-PMS Dashboard Views

AI-PMS provides multiple, real-time views, Each with a specific purpose:

- **Triple-Constraint Delta Charts**

For tracking the Targeted, Actual and Forecast views of project timeline, cost and effort. The forecast is based on AI-PMS's native machine-learning algorithms that learn with time.

- **Timeline with Risk Heatmaps**

These are Gantt charts annotated with  $\Delta x$ . A task is highlighted when predicted delay is positive.

- **Critical Path View**

Graph visualization of longest delay chain (i.e., the  $\Delta X_{path}$ ) and ripple propagation.

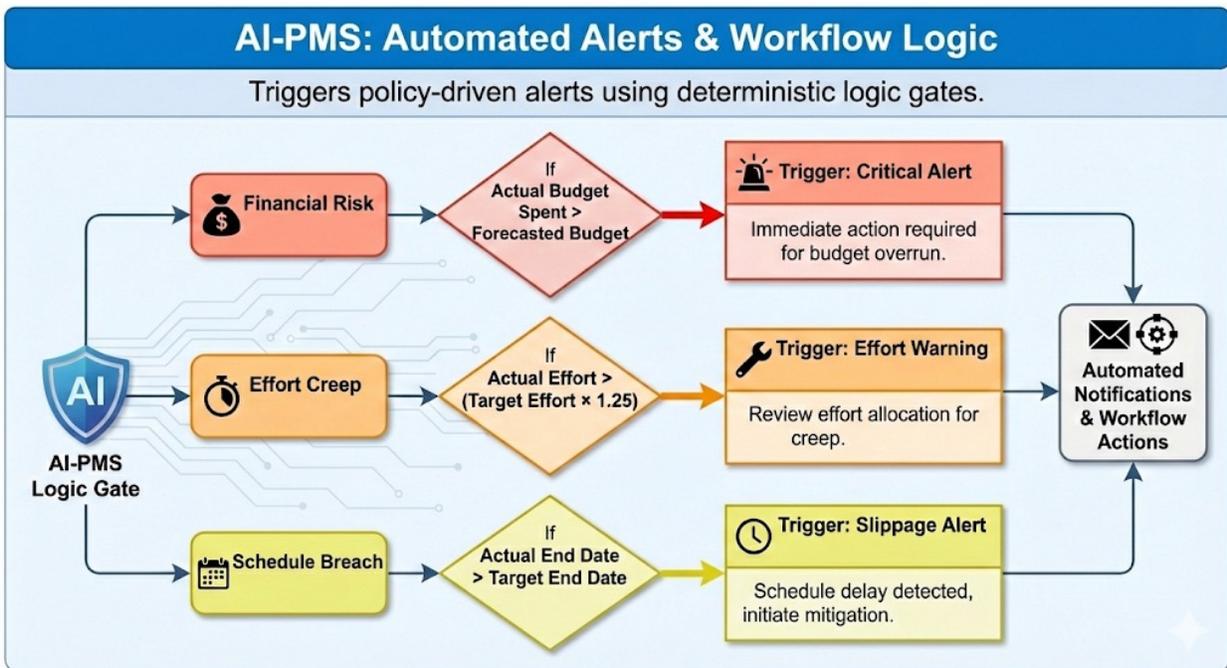
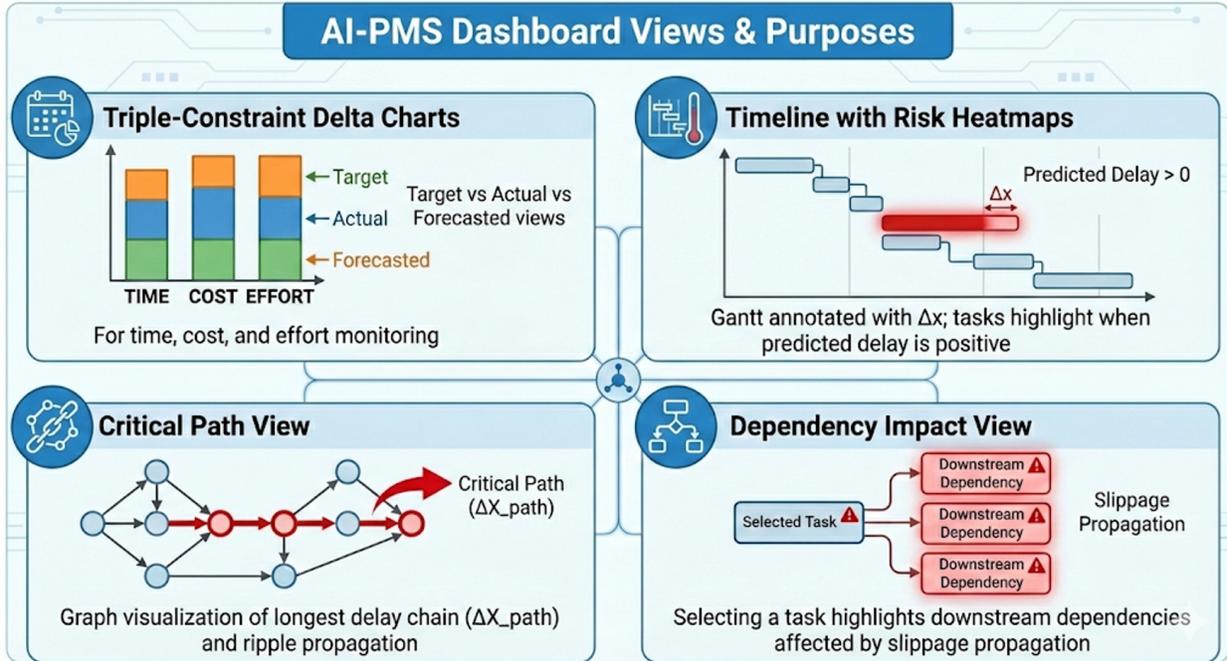
- **Dependency Impact View**

Selecting a task highlights downstream dependencies affected by slippage propagation.

### Automated Alerts & Workflow Logic

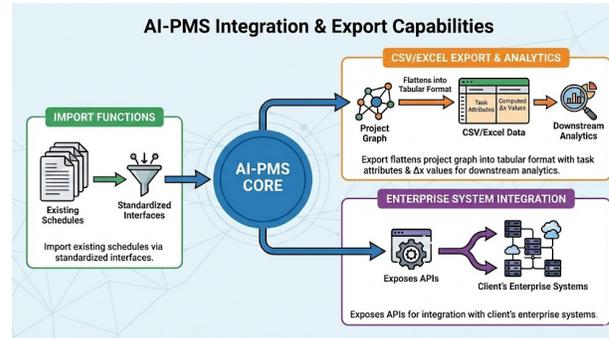
Besides the multiple, purpose-driven dashboards, AI-PMS triggers policy-driven alerts using deterministic logic gates. The alerts are classified according to the risk category – Financial (Budget), Effort, Schedule – and risk severity, i.e., Critical, Warning, or Alert.

Together, the dashboards and automated alerts provide an intuitive, wholistic and time-sensitive view of the project in execution.



## Integration & Export

AI-PMS provides standardized interfaces for importing existing schedules, exporting project data to CSV/Excel, and exposes APIs for integration with client's enterprise systems. The export flattens the project graph into a tabular format containing task attributes plus computed  $\Delta x$  values for downstream analytics.



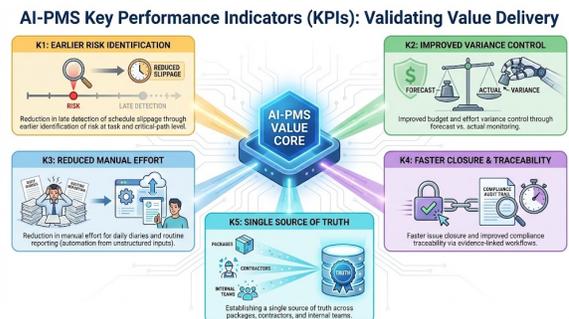
## Security, Governance & Compliance

- Role-Based Access Control (RBAC) with segregation of duties (Assignee, Reviewer Owner).
- Comprehensive audit trails for changes to baselines, dependencies, budgets, and approvals.

- Data encryption at rest and in transit; secure API gateway for integrations.
- Configurable retention and evidence vault for photos, logs, and documents.
- Deployment options: client-controlled cloud or on-premise, aligned to client's cybersecurity policies.

## Key Performance Indicators

AI-PMS comes with a set of Key Performance Indicators (KPIs) to validate the value delivered by AI-PMS over previously (or concurrently) used project management systems.



As a project leader, if you are ready to leverage AI-PMS for proactive and dynamic project management and usher in a transformational shift in project planning and control, we at Verit AI would like to collaborate with you to deliver a customized solution that integrates with existing systems and delivers persistent ROI in line with your business and operational goals.

Contact us today for a meeting or demo: Web: [www.veritaiworx.com](http://www.veritaiworx.com) | Email: [info@veritaiworx.com](mailto:info@veritaiworx.com).