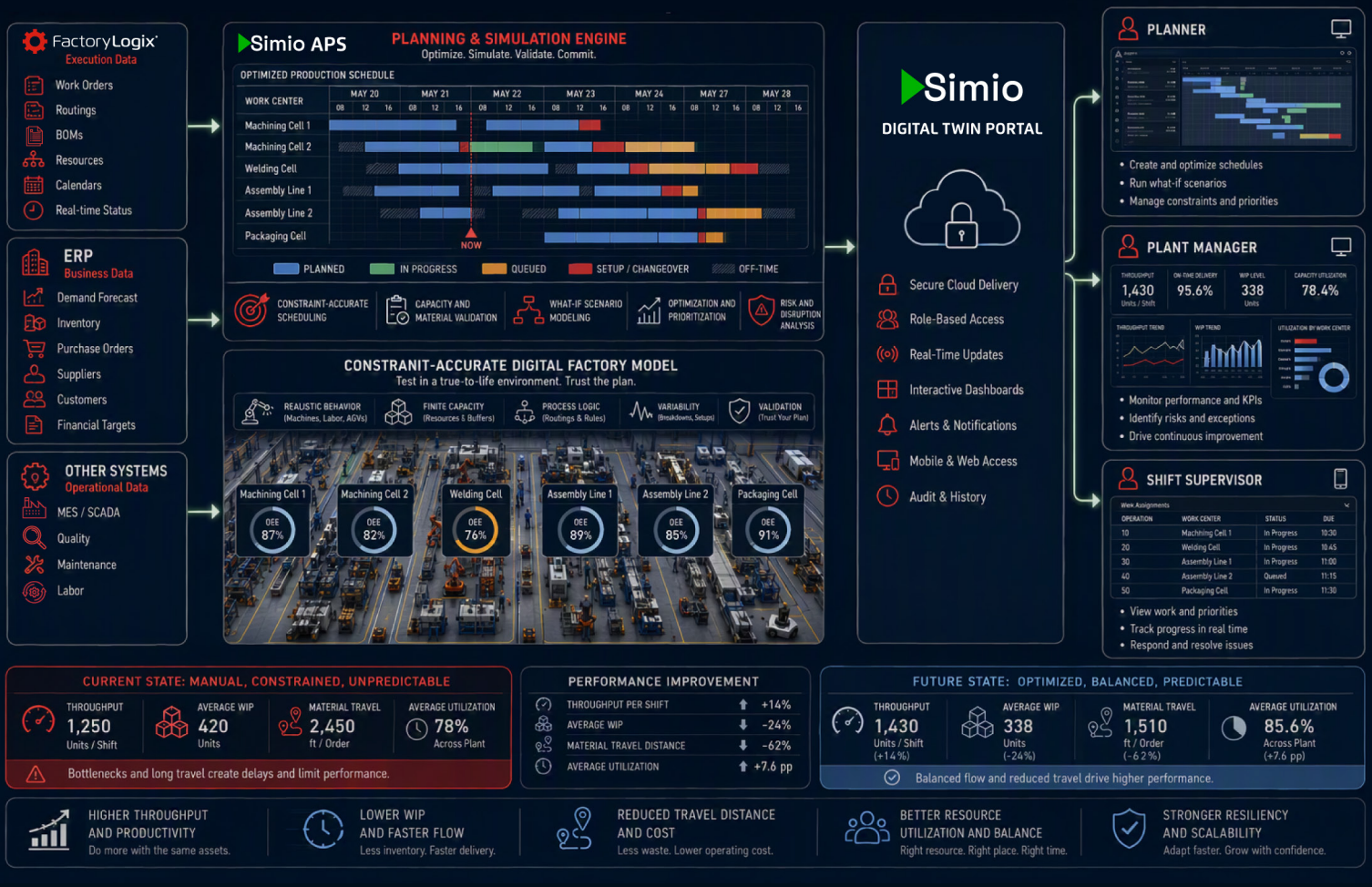
DATA SHEET

AEGIS SOFTWARE

Simio APS

Full Advanced Planning and Scheduling with
Cloud Portal and AI-Enabled Intelligence

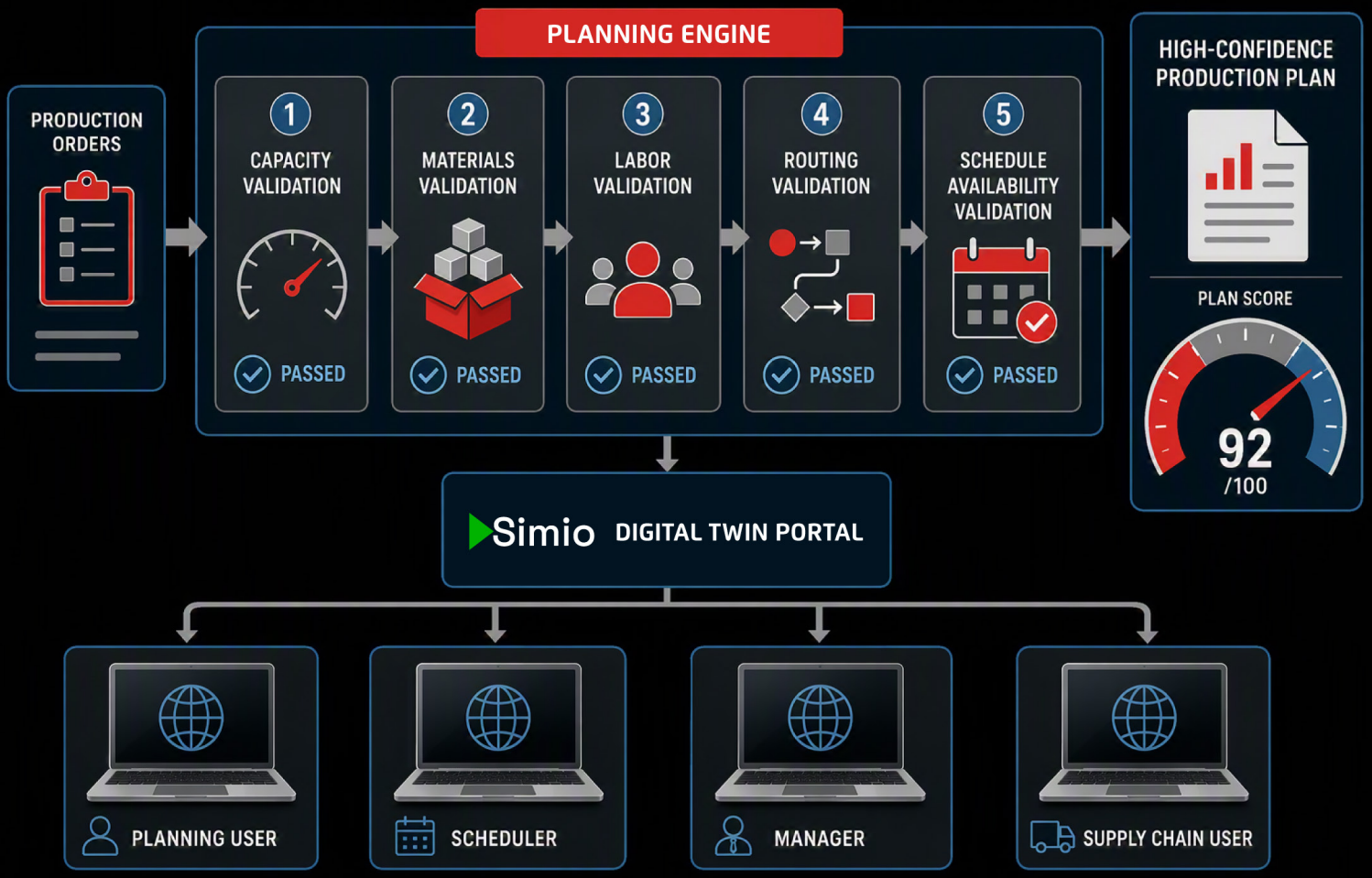
The Schedule That Holds Up When It Hits the Floor



Full APS Built on Simulation, Not Approximation

Traditional APS systems produce schedules that look right on paper and break on the shop floor because they use rough-cut capacity models and artificial time buckets that cannot account for the actual constraints driving production performance. Simio APS uses discrete-event simulation to model manufacturing as it actually operates, producing schedules that are resource and material feasible and executable on the production timeline, from the first run.

Simio APS models the full constraint set such as workstations, work centers, work areas, routing logic, operators, vehicles, materials, BOMs, changeovers, reliability, work schedules, and transportation networks. The Simio Portal extends those planning results to operational users and key stakeholders across the organization through a cloud-based web interface, enabling collaborative planning, large-scale scenario experimentation, and result distribution without requiring desktop access for every user.



Why Enterprise Manufacturers Choose Simio APS

Constraint-Accurate Scheduling

Models the full constraint set including primary resources, secondary resources, materials, routing, changeovers, reliability, and transportation. Produces feasible, executable plans where traditional APS produces plans that break on the shop floor.

AI-Enabled Decisions

Embedded neural network models collect training data during simulation runs to make optimized decisions for line selection during schedule creation.

Portal Distribution

Cloud-based planning result distribution to operational users via web access. No desktop installation required for schedule consumers. Enables collaborative planning across teams, sites, and roles, including result distribution to key stakeholders.

Cloud-Scale Experimentation

The Simio Portal provides cloud computing resources for large-scale scenario experimentation that exceeds local machine capacity, enabling broader what-if analysis across more variables and scenarios.

Planning and Platform Capabilities

- Full discrete-event simulation-based advanced planning and scheduling
- Simio Portal for cloud computing, large-scale experimentation, and web-based result distribution
- Embedded neural network models for optimized routing and dispatching decisions
- ONNX-compatible external machine learning model import
- Full what-if scenario analysis and multi-strategy comparison
- Includes all Simio Virtual Factory Designer functionality
- Multi-site planning support across facilities
- Compatible with FactoryLogix, ERP, and other enterprise data sources
- Ranking, dispatching, and compound dispatching rules for order selection
- Lot splitting and combining, batch processing, and task sequence modeling

From Plan to Execution. With Confidence.

Simio APS replaces rough-cut planning with constraint-accurate scheduling that reflects how the factory actually operates, distributed to every stakeholder who needs it through the Simio Portal. For manufacturers already running FactoryLogix, Simio APS closes the planning-to-execution loop: FactoryLogix feeds real execution data into the APS model, and the model uses that data to drive every future schedule, which can be pushed directly to the shop floor for operator execution or for full autonomous, no-touch factory orchestration.

