



COMBINED OPERATIONS MODELING, SCHEDULING, AND TRACKING ANALYSIS TOOL

**Smart Decision Support
for Complex Planning and
Operational Challenges.**

COMSTAT's consolidated capabilities
help decision makers meet challenges
with informed solutions.

Optimize planning. Simulate reality.
Quantify tradeoffs.

FLEXIBLE MODELING

Customize schedules for
different forces, a variety of
requirements, and time
ranges from hours to decades.

DYNAMIC SCHEDULING

Replace manual, time-
consuming processes with
tools that optimize goals while
staying within rules.

INTEGRATED TRACKING

Streamline schedule creation
and management. Modify
schedules to respond to new
or changing events while
monitoring the effects on
goals and requirements.

PROVEN METHODS WITH 25+ YEARS OF APPLIED EXPERIENCE

- **Analyze** force structure questions
with a schedule-based approach
- **Create** usable and detailed plans
- **Model** the interaction and coordination
of forces and individual assets
- **Fully customize** requirements,
planning factors, and goals
- Mathematical processes **save time**
and improve outcomes





COMSTAT QUANTIFIES OPERATIONAL TRADEOFFS BY SIMULATING REALITY AGAINST OPTIMIZED SCHEDULES.

→ OPTIMIZE PLANNING

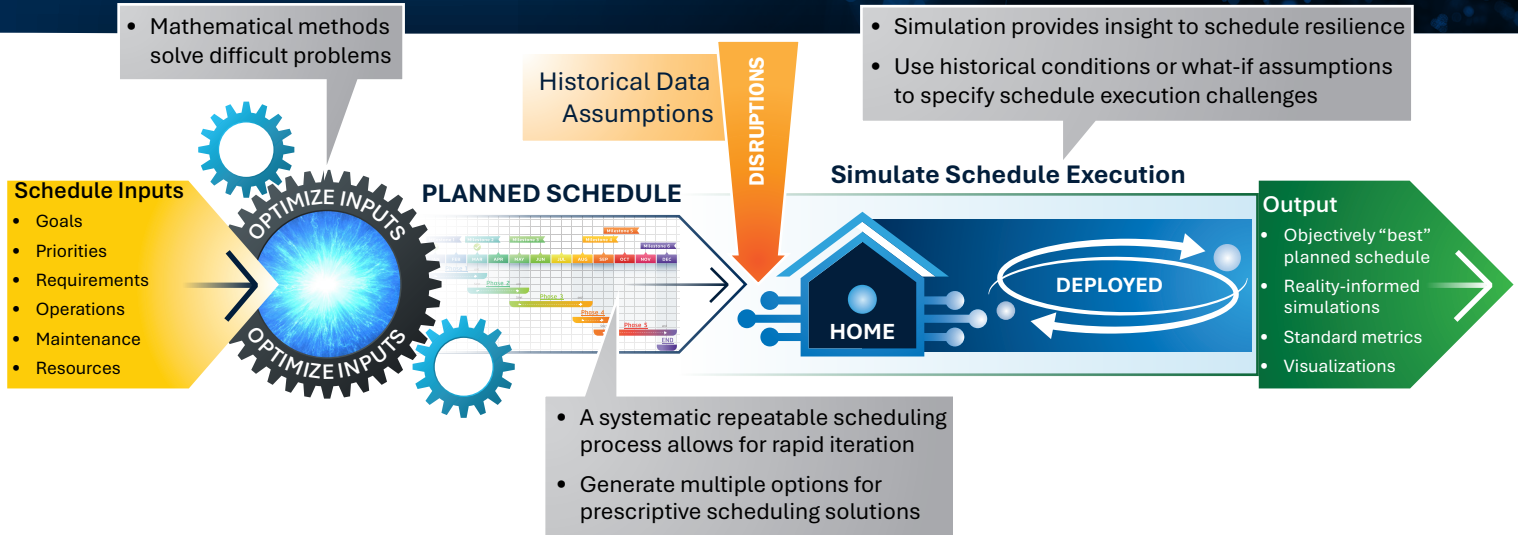
Mathematical methods with 70+ years of theory and applications are used to connect goals, requirements, and rules to produce “best possible” schedules.

→ QUANTIFY TRADE-OFFS

Schedule-based metrics integrated with visualizations present complex scenarios and interactions consistently and intuitively.

→ SIMULATE REALITY

Monte Carlo methods inject schedules with random “disruptions” based on historically informed factors to replicate operational challenges.



COMSTAT EQUIPS PLANNERS AND DECISION MAKERS WITH FLEXIBLE ANALYTIC CAPABILITIES THAT SAVE TIME AND DELIVER SOLUTIONS TO COMPLEX PROBLEMS.

Optimize Planning: Create detailed schedules that coordinate goals, force-level requirements, operational priorities, maintenance needs, and other factors. Metrics provide guarantees for consistent schedule quality with measurable, traceable, rigorous mathematical certainty.

Simulate Reality: Simulate to understand the range and likelihood of outcomes that result when a plan encounters real-world challenges. Quantitatively assess resilience under historical conditions and what-if case assumptions.

Quantify Trade-offs: Construct and analyze different scenarios to understand interactions between requirements and resources. Schedule-based outputs provide metrics that are comparable across all scenarios.

◆ Decision Advantage for National Security

Systems Planning & Analysis (SPA) is a global, independent analytical and technical innovation firm advancing complex national security priorities. SPA delivers mission engineering, advanced analytics, operational insights, and technology-enabled solutions that accelerate capability delivery and inform strategic decision-making across defense, intelligence, homeland security, and other critical mission areas.



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