

PRESCRIPTIVE ENTERPRISE FORECASTING

FORECASTING COMPLEX COST AND RESOURCE CHALLENGES

UNIQUELY OPTIMIZING THE FLOW OF CRITICAL ASSETS

INVENTORY DECISION SUPPORT PROCESS

IDSP combines ops research, an authoritative baseline, and advanced analytics in a unique process for managing future cost and resource allocations.

The process iterates copious amounts of historical data with planning, budget, and policy info for authoritative forecasting.

COMPUTATIONAL ENGINE

SPA Prescriptive Enterprise Forecasting and IDSP explicitly link near-term HQ budget and Program Office funding decisions to their readiness outcomes.

This powerful computational engine helps inform near-term (1-5 year) through long-term (30-40 years) enterprise outcomes, based in prescriptive analytics for strategic decision making.

ENTERPRISE INTEGRATION

IDSP resolves enterprise-level conflicts of interest with authoritative output.

The process uniquely provides excursions from the baseline into “what if” plans and outcomes for maximum decision support.

UNIQUE, PRESCRIPTIVE LIFE-CYCLE MANAGEMENT

SPA Prescriptive Enterprise Forecasting synchronizes supply with demand: how, when, and where an asset (supply) should be maintained or modified with the operational schedule (demand). All assets’ supplies and demands are considered “from cradle to grave.”



ADVANCED CAPABILITIES CREATE EXCEPTIONAL RESULTS

The SPA Prescriptive Enterprise Forecasting computational engine is **platform-independent**. It runs on any OS that implements Python and Rust runtimes (virtually all Operating Systems).

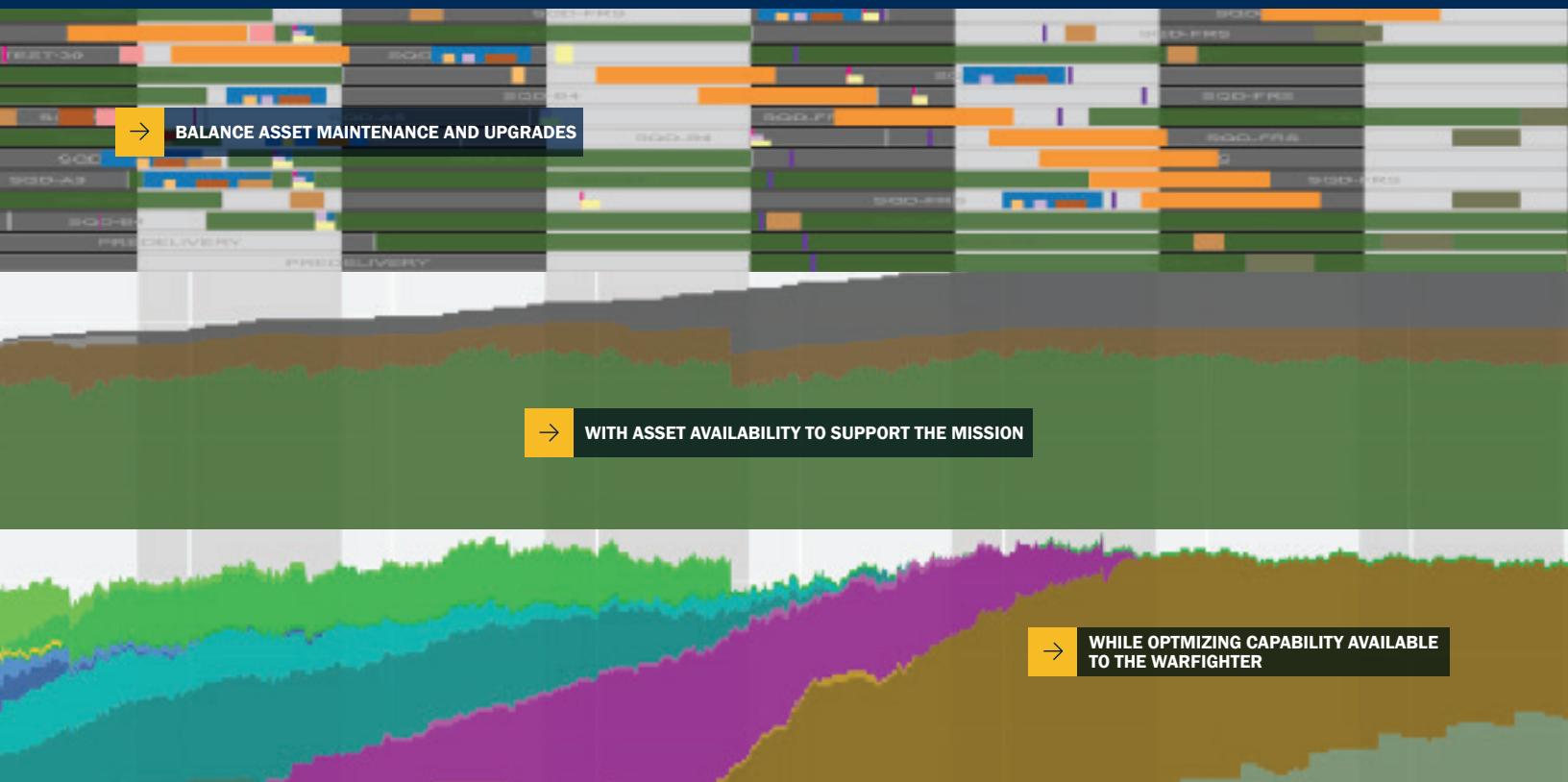
Flexible, standard architecture allows **customization** for each client’s unique requirements.

SPA Prescriptive Enterprise Forecasting implements an **advanced plugin-based architecture** that allows custom code injection in a standard discrete time-stepped simulation control loop.

The forecast **captures enterprise behavior** with minimal front-end investment.



SPA PRESCRIPTIVE ENTERPRISE FORECASTING-GENERATED FORECASTS ARE INTEROPERABLE AND MAY BE INTEGRATED ACROSS SUPPORTED INVENTORIES



IDSP AND SPA PRESCRIPTIVE ENTERPRISE FORECASTING CLARIFY AND FORECAST COMPLEX COST AND RESOURCE CHALLENGES

Inventory Management: optimizing the flow of critical assets, e.g., aircraft, ships, radars, pods, manpower.

Service Life Modification Planning: balancing near-term readiness and long-term force structure to optimize operational availability.

Stakeholder Alignment: quantitatively integrating plans from all echelons with authoritative baselines.

Convergence of Modifications Planning: synchronizing complex streams of discrete mod requirements and optimizing force capability.

DECISION SUPPORT FOR NATIONAL SECURITY

Systems Planning & Analysis, a leading global provider of advisory services supporting national security objectives, provides deep domain expertise, problem-solving capabilities, and a results-driven approach to program lifecycles, reaching a wide spectrum of market areas.

With over 50 years of experience, SPA successfully manages large, integrated professional service projects in engineering, analytics, modeling and simulation, and financial and scientific services for clients worldwide.



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