

PRESCRIPTIVE ENTERPRISE FORECASTING

FORECASTING COMPLEX COST AND RESOURCE CHALLENGES



UNIQUELY OPTIMIZING THE FLOW OF CRITICAL ASSETS

ASSET PLANNING AND MANAGEMENT SYSTEM (AMPS)

A modern web-based inventory management and demand planning tool for managing mission-mounted equipment (MME) such as ALQ-99 and ALQ-249.

AMPS is a comprehensive system for inventory tracking, data analytics, and readiness reporting, providing authoritative MME data for use by the fleet and PMA-234. AMPS is the data backbone for IDSP prescriptive forecasts.

AMPS is hosted in NAVAIR's eDMZ infrastructure and on the CANES networks for afloat use.

INTEGRATED DECISION SUPPORT PROCESS

Integrated 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.

IDSP uniquely provides excursions from baseline forecasts to address "What if?" questions for unprecedented insight.

PRESCRIPTIVE ANALYTICS

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.

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).

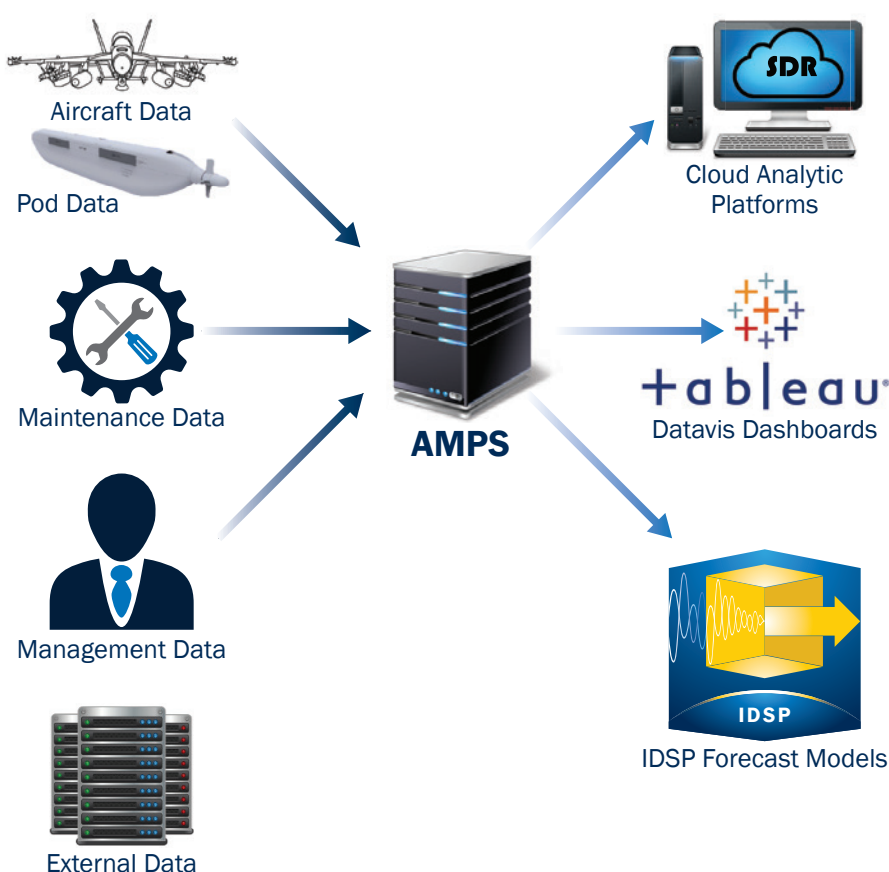
Flexible, standard architecture allows **customization** for each client's unique requirements.

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.

OBJECTIVE | RESPONSIVE | TRUSTED

→ AMPS ENABLES THE FOLLOWING FUNCTIONS, AMONGST OTHERS:



- Asset managers have full visibility into the custody, status, and condition of every asset in the inventory at all times.
- Operators can report on the status and condition of every asset in their custody from anywhere in the world.
- Asset managers can access information such as serial numbers, part numbers, production lot numbers, embedded software versions, etc. for all assets in the inventory.
- Asset managers can plan, direct, and track induction of assets for Engineering Change Proposals (ECP) and other modifications.
- Maintenance personnel can track the maintenance and materiel condition of assets under repair.

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 Aircraft 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.

Examples of SPA contract vehicles include:

NAVAIR SCI MAC: N0042125D0074 **DTIC IAC MAC Pool 1:** FA807525D0007 **OASIS+:** 47QRCA25DU593

DECISION SUPPORT FOR NATIONAL SECURITY

Systems Planning & Analysis, a leading global provider of data-driven analytical insights 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's portfolio of differentiated capabilities and tools delivers comprehensive support to the most critical programs for combatting threats, influencing long-term strategic priorities, and shaping policies at the highest levels.



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