



PARADIGM Max Q

CORPORATE OFFICE

50 Tech Parkway
Stafford, VA 22556



ACQUISITION & SUSTAINMENT EXPERTS



SUPPLY CHAIN OPTIMIZATION

PMQ applies advanced analytics, optimization modeling, and simulation to integrate and analyze supply chain data across procurement, logistics, and inventory. We identify inefficiencies, optimize network performance, and enable data-driven decision-making to reduce cost and improve resilience.



DATA ANALYTICS & VISUALIZATION

PMQ designs and implements advanced analytics pipelines and mission-focused visualizations that integrate disparate data sources to support statistically rigorous, decision-quality insights.



MODELING & SIMULATION

PMQ develops verified and validated models and simulations to assess system performance, conduct trade studies, and reduce cost, schedule, and technical risk across the acquisition lifecycle.



RELIABILITY & MAINTAINABILITY

PMQ provides quantitative reliability engineering methods—including failure modeling, statistical life data analysis, and maintainability metrics—to assess system risk, availability, and lifecycle performance.



MAINTENANCE PLANNING

We provide advanced aircraft maintenance planning and sustainment analytics, including Level of Repair Analysis (LORA), diagnostics and health management, degrader analysis, and Reliability Control Board (RCB) application to increase readiness and reduce lifecycle costs.



PROGRAM PLANNING

PMQ delivers end-to-end weapon system program planning and management, including requirements development, funding and production planning, systems engineering, fielding, and sustainment—enabling efficient execution across the full acquisition lifecycle.

IDENTIFIERS

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WHAT MAKES US DIFFERENT?

We combine seasoned Subject Matter Experts with skilled analysts and engineers to deliver practical, data-driven solutions that solve today's challenges and prevent tomorrow's. To date, the Paradigm Max Q team has:

- **Over 80% Veteran workforce** with an individual average of more than 20 years of experience
- A **97% retention rate for the workforce**
- Experience with supporting over **35** different aircraft platforms

RESULTS DELIVERED

- Delivered **multi-billion-dollar lifecycle cost avoidance** through advanced Level of Repair Analysis (LORA) and continuous optimization analysis, significantly enhancing air vehicle supportability and sustainment performance.
- Resolved **\$120M** in at-risk funding issues, improving financial execution and resource alignment.
- **Delivered custom tools** supporting data-driven decisions and led enterprise-level degrader analysis, increasing weapon system availability and capability while reducing costs and improving organizational efficiency.
- Integrated predictive modeling (NAVARM, OPUS, SIMLOX, METIS) with operational workflows to deliver over **100 global spares forecast packages**, strengthening demand planning and supply readiness.
- Led execution of the **Degrader Action Cell** framework for the F-35 JPO, managing hundreds of actions across avionics, propulsion, and subsystems. Led root cause analysis, engineering changes, and supply chain interventions to eliminate systemic readiness degraders and improve operational availability.



SOSSEC | THE SYSTEM
OF SYSTEMS
CONSORTIUM

TREX
TRAINING AND READINESS ACCELERATOR II

MSITC
Maritime Sustainment Technology and Innovation Consortium

GSA
Multiple Award Schedule
(MAS) Contract Holder

LOGEN II
ENTERPRISE LEVEL
LOGISTICS AND
ENGINEERING
TECHNICAL SUPPORT
SERVICES

CTMA
COMMERCIAL TECHNOLOGIES
FOR MAINTENANCE ACTIVITIES