**JSF Autonomic Logistics System**

**Highly Supportable Aircraft**
- Reliable Design
- Prognostics and Health Management
- Remove/Replace (R/R) Maintenance

**Support System**
- Maintenance Support
- Supply Chain Management
- Support Equipment
- Joint-Service Tech Data
- Sustaining Engineering
- 24/7 Help Desk

**Training System**
- Pilot Embedded Training
- On Demand Maintenance Training
- Air Vehicle Software Reuse
- Integrated Training

**Autonomic Logistics Information System**
- Distributed Information System
  - Elements include
    - Support Services
    - Training Services
    - Mission Support Services

**Autonomic Logistics Provides Order Of Magnitude O&S Savings**
Operations Center Manages Network of Service Providers
ALIS – An Enabler of Total Life Cycle System Management

- On-Board PHM
- Fleet Management Activities
- Customer Support
- Suppliers and OEMs

Base Management Activities

Autonomic Logistics Information System

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Supply Chain Management Key Concepts

Right Sized Inventory

Autonomic, Optimized, Affordable Supply Chain Delivery Performance

Reliability & Maintainability

Modern PHS&T Technology

ALIS

Total Asset Visibility

Advanced Commercially-Available SCM Tools

E-Commerce Technology

Technology Leveraging

Government Agencies

Lead Logistics Provider

OEMs/Suppliers

Partnerships

LM Team

Sandia Labs

Demand Distribution

Variability Reduction

PHM

Legacy

JSF
Key Supply Chain Management Features

- Total Asset Visibility for Supply Chain

- Agile supply chain philosophy
  - Driven by aircraft availability requirements
  - Demand volume decreases and stabilizes due to
    - Increasing reliability
    - Prognostics capability
    - Modern forecasting tools

- Single supply chain with centralized inventory management

- A common pool of spare parts across service lines
  - 86% Commonality of spares among the three aircraft variants

We Sell a Guaranteed Service, Not Spares
Lead Logistics Provider

- Competitive subcontract for
  - Inventory Management
  - Distribution
  - Transportation
  - Information Technology Integration
  - Responsibility for time-definite deliveries

- We retain
  - Long-range simulation and forecasting
  - Vendor selection
  - Performance monitoring
  - Insight and knowledge to manage and improve the supply chain

A Synergy of Core Competencies
F-35 Management Across The Globe

- Prime Contractors
- Depots
- OEMs
- Pratt & Whitney
- General Electric
- BAE
- Northrop Grumman
- Lockheed Martin
- F-16 Locations
- F/A-18 Locations
- AV-8B Locations

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Be the model acquisition program for joint service and international cooperation

Develop and produce an **affordable** next generation strike fighter weapon system and sustain it worldwide