

Joint Strike Fighter



Industry Support of the F-35 Joint Strike Fighter

**27 October 2003
Luke Gill**





F-35 JSF Autonomic Logistics System

Highly Supportable Aircraft

- Reliable Design
- Prognostics and Health Management
- Remove/Replace (R/R) Maintenance

Training System

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



Support System

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

Autonomic Logistics Information System

- Distributed Information System
- Elements include
 - Support Services
 - Training Services
 - Mission Support Services

A Global Evolution in Fighter Sustainment



Remove and Replace Aircraft Maintenance Concept



APPROACH

- Unit Level (O-Level On/Off Equipment) & Depot
- On Equipment – R/R and Servicing
- Off Equipment – Limited Legacy
- I-Level & SE Repair
- Contractor/Depot Repair of Repairables



CHARACTERISTICS

- High Reliability With PHM
- PHM Provides Failure Prediction & Estimated Remaining Life
- Quick Access Doors & Panels
- ICT Without SE
- Self Sufficient – Integrated Power Package (IPP) Provides Power & Cooling



BENEFITS

- PHM Reduces Troubleshooting and Scheduled Maintenance
- 71% Reduction in Maintenance Man Hours
- No LO Restoration for 97% of Maintenance
- SGR 22% above requirement
- 95% of LRC's are Single-Tiered for R&R
- Reduced Log Footprint