

# Joint Strike Fighter F-35 Lightning II



3159 Aircraft 15 Services

3 US Services, 8 Partners, 1 Security Cooperative Customer, Foreign Military Sales Customer
1 Global Support Solution



## Fighter Aircraft Generations



5th Gen Integration of Stealth and Fighter Evolution = Quantum Leap



## Joint Strike Fighter Overview

- The Next Generation 'Family' of Strike Fighters
  - 3 Variants (F-35A CTOL, F-35B STOVL, F-35C CV)
  - F-16/F/A-18C 'Like' Aero Performance
  - Stealth Signature and Countermeasures
  - Advanced Integrated Avionics
  - Integrated Logistics and Sustainment
  - Performance based O to D Maintenance
- JSF requirement met by Lockheed Martin F-35 Lightning II





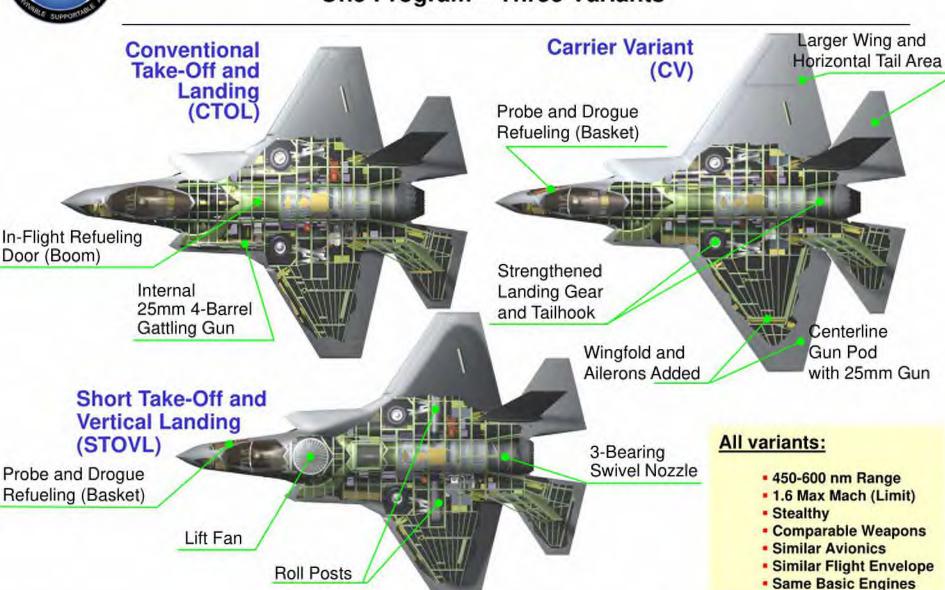
Lethal Survivable Supportable Interoperable

SUPPOR



### F-35 Family of Aircraft

One Program – Three Variants





# Fleet Requirements

- USAF: CTOL
  - Multi-role (primary air-to-ground) fighter to replace the F-16 and A-10 and to complement F-22

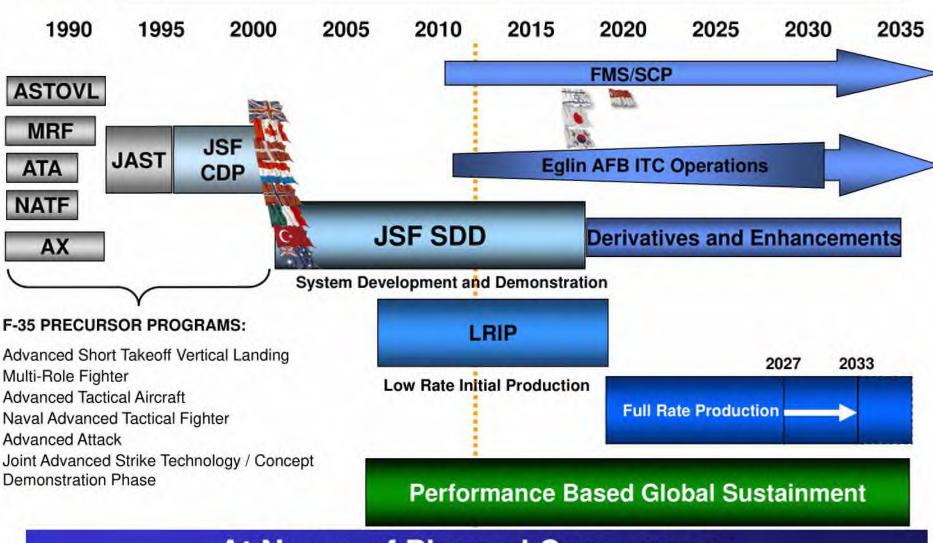


- DoN: CV/STOVL
  - USN Multi-role, stealth strike fighter to complement the F/A-18E/F
  - USMC Multi-role, short takeoff, vertical landing strike fighter to replace the AV-8B and F/A-18C/D
- UK (RN and RAF): STOVL
  - Replacement for the Sea Harrier and GR-7
- Other Int'l Partners: Italy, Netherlands, Australia, Norway, Denmark, Canada, Turkey
  - CTOL/STOVL mix
  - Replacing: F-16, F-18, AMX, Tornado, Harrier
- Foreign Military Sales: Israel, Japan
  - CTOL





## F-35 Acquisition Timeline



### **At Nexus of Planned Concurrency**



### F-35 Sustainment

#### Performance-Based Sustainment

- Optimizes F-35 Weapons System Readiness
- Procures Performance
- Capitalizes on Logistics Chains and Partnerships

#### **Smart and Reliable Aircraft**

- Highly Reliable
- Streamlined Maintainability
- Enhanced Supportability
- Prognostic and Health Management System





#### Technology Enabled and Supported Maintainer

- Leading Edge Technology
- Training
- Information
- Tools and Equipment

#### Intelligent Information Infrastructure

- F-35 Portal for Information Sources between Partners
- Air Vehicle, Government and Training Systems all collaborate

#### Integrated Training Environment

- Employs Latest Technology and Research
- Comprehensive Integrated Capability
- Joint/International Mission Qualified Pilots and Maintainers



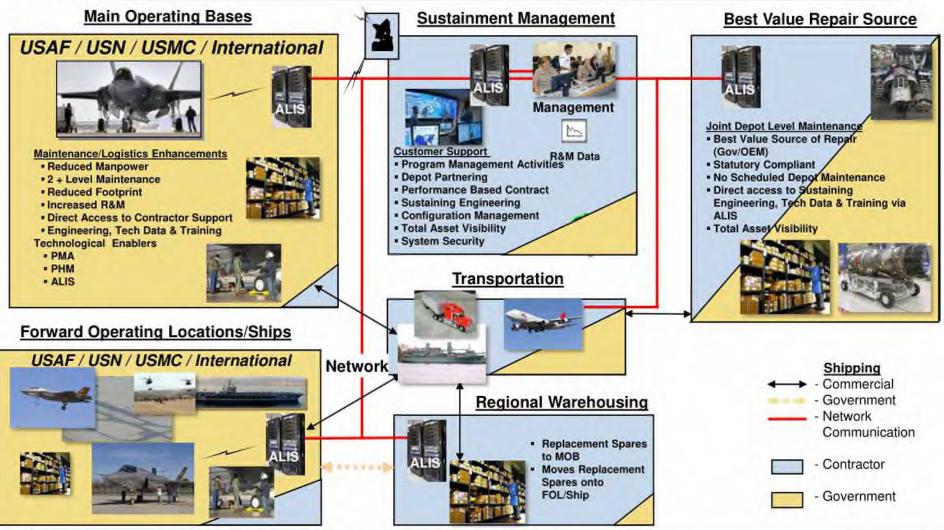
# F-35 Logistics & Sustainment System



Logistics and Sustainment is an integral part of the F-35 Air System



# JSF Integrated Logistics Infrastructure



Understanding Characteristics & Interdependencies

