



F-35 Logistics & Sustainment Overview Brief

**Gp Capt Pete Grinsted RAF
Deputy Director of Logistics & Sustainment**



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**



F-35 Overview

- **The Next Generation ‘Family’ of Strike Fighters**
 - **3 Variants**
 - **F-16/F/A-18C ‘Like’ Aero Performance**
 - **Stealth Signature and Countermeasures**
 - **Advanced Integrated Avionics**
 - **Integrated Logistics and Sustainment**
 - **Performance based – O-D, 2 lines, of Maintenance**
- **JSF requirement managed in PSM/PSI relationships**



Lethal Survivable Supportable Affordable



F-35 Sustainment Strategy

- **Achieve Best Value Solution for US Services and Partners**
- **Integrated, Global System of Sustainment Products, Processes, & Business Practices**
- **Leverage Global Resource Base to Take Advantage of Stakeholder Capabilities, Human Capital and Best Practices**
- **Drive Life Cycle Focus Emphasizing Cost Reduction**
- **Driving R&M Improvements via Business Processes**
- **Disciplined Global Sustainment Baseline Supporting Future Cost and Performance Trades**
- **Mature Governance Processes Ensuring O&S Cost Accountability and Transparency**
- **Corporately Maturing Strategy with Services, Partners, OSD, Industry & Congressional Participants**



F-35 Logistics & Sustainment System



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



The F-35 Paradigm Shift

- **F-35 Sustainment will be different to anything that has been done before**
- **Break down Service/National stovepipes**
- **Opportunities built into the Air System**
 - Interoperability
 - Reduced operational footprint
 - Reduced through life costs
 - Reduced operational risk
 - Incentivized, performance, output-based contracting
- **Need to understand the ‘real’ Warfighter requirements**
 - Common v Unique

Maximize opportunities for efficiencies while meeting Warfighter requirements



F-35 Integrated Sustainment Infrastructure

Main Operating Bases

USAF / USN / USMC / International



Maintenance/Logistics Enhancements

- Reduced Manpower
- 2 + Level Maintenance
- Reduced Footprint
- Increased R&M
- Direct Access to Contractor Support
- Engineering, Tech Data & Training



Technological Enablers

- PMA
- PHM
- ALIS



Forward Operating Locations/Ships

USAF / USN / USMC / International



Sustainment Management



Management

Customer Support

- Program Management Activities
- Depot Partnering
- Performance Based Contract
- Sustaining Engineering
- Configuration Management
- Total Asset Visibility
- System Security

R&M Data

Best Value Repair Source



Joint Depot Level Maintenance

- Best Value Source of Repair (Gov/OEM)
- Statutory Compliant
- No Scheduled Depot Maintenance
- Direct access to Sustaining Engineering, Tech Data & Training via ALIS
- Total Asset Visibility



Transportation

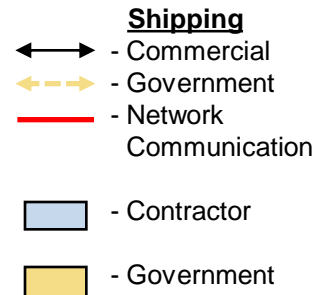


Network

Regional Warehousing



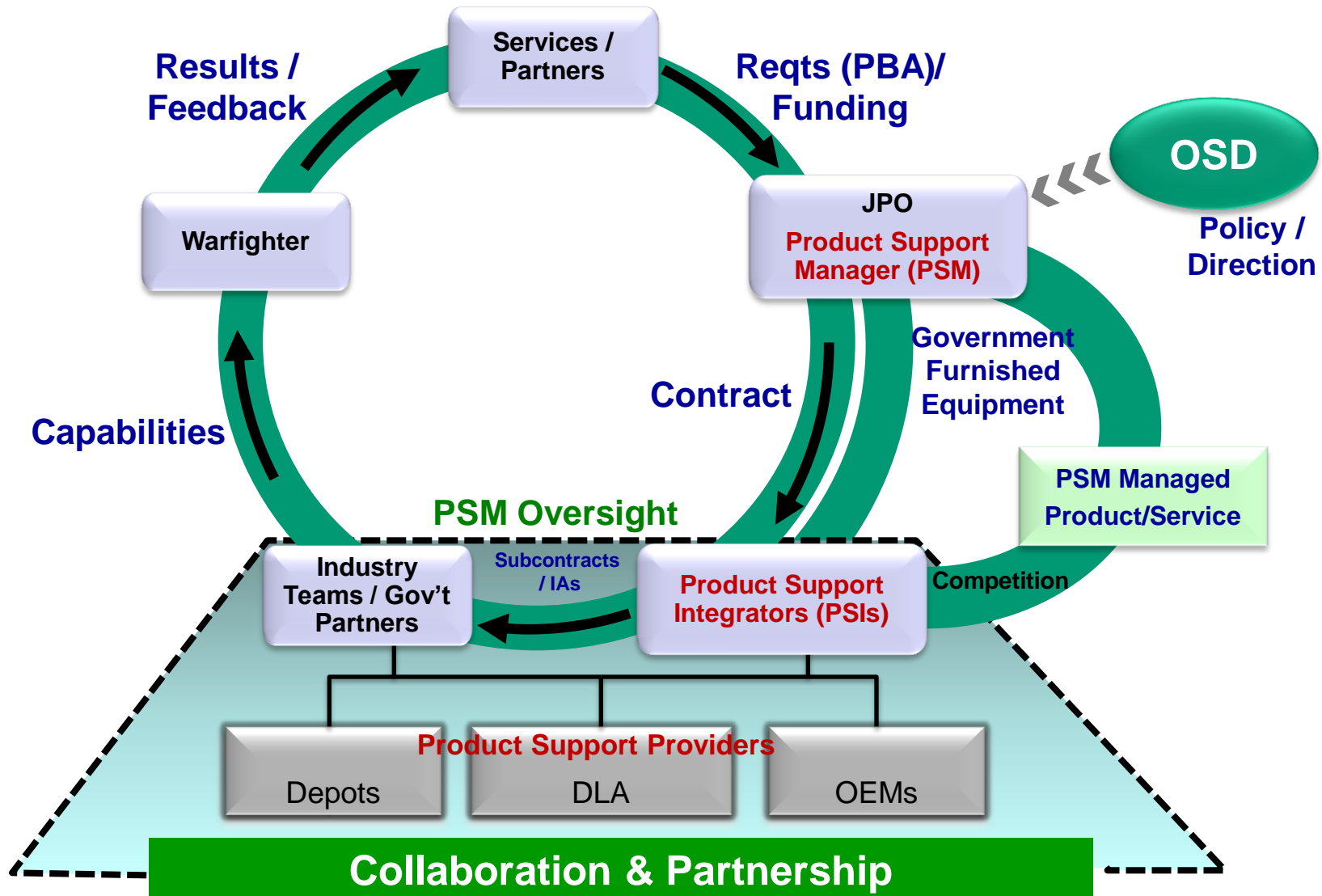
- Replacement Spares to MOB
- Moves Replacement Spares onto FOL/Ship



Understanding Characteristics & Interdependencies



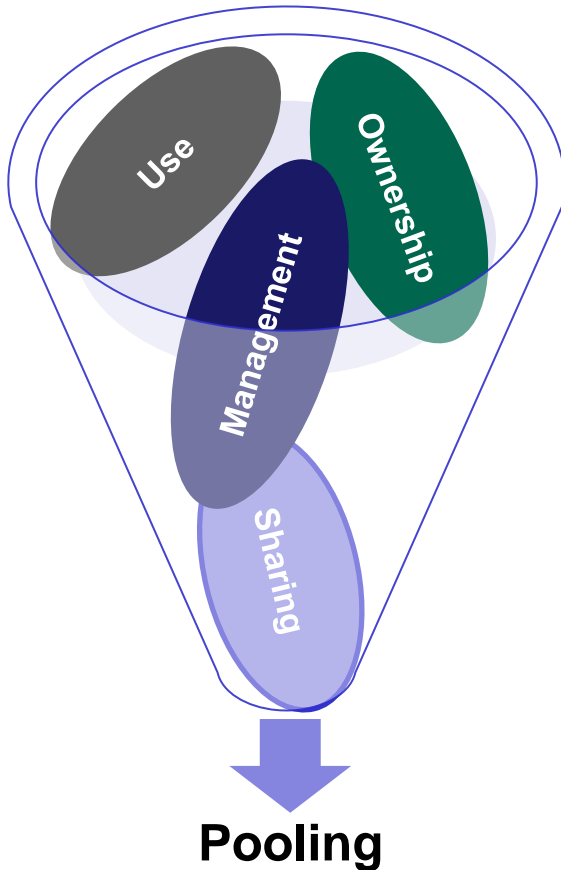
F-35 Sustainment Performance-Based Process





F-35 Global Pooling Strategy

Pooling of Air System Spares and Support Equipment is a global sustainment strategy that consists of four independent tenets: ownership, management, use, and sharing



Use: The employment of an asset for its intended purpose to support operations, maintenance & repair

Ownership: Retaining the title to an asset, which also carries the responsibility for complying with asset registration and accounting regulations, regardless of its use or management

- *Central Ownership:* A single entity, the US DoD, owns a pool of assets on behalf of the F-35 Enterprise
- *Local Ownership:* A Service, squadron, or base owns specific GFE

Management: The oversight of an asset's use and upkeep

- *Central Management:* A Product Support Integrator (PSI), acting on behalf of the Product Support Manager (PSM), coordinates asset availability, ensures the technical sufficiency of the asset, and makes decision regarding the use of an asset; a custodian executes stewardship and preventative maintenance
- *Local Management:* A Service, squadron, or base accountable for providing GFM: overseeing its use, ensuring it is in proper working order

Sharing: The cooperative 'Use' of an asset among a group of 'Users'. Sharing can happen at different levels

Ownership and Pooling Strategy endorsed US Services & Partnership



Commonality Opportunities

- **Sustainment System**
- **Support Equipment**
- **ALIS**
- **Configuration Management**
- **Tech Data**
- **Supply Chain**
- **Training**
 - **Pilot Training**
 - **Maintainer Training**



Service Skill Sets

WORK CENTER	USAF AFSC	USN RATING	USMC MOS AV-8B // F/A-18 (‘A’ school MOS)	UK TRADE	
Fuels	2A6X4	AD	6212/6217 (6211)	Aircraft Mechanics	Mechanical
Propulsion	2A6X1A				
Line/Crew Chief	2A3X3	Any Aviation Rating			
Structures	2A7X3	AM	6252/6257 (6251)		
Low Observables					
Environmental	2A6X6	AME	6282/6287 (6281)		
Electrical		AE	6332/6337 (6331)		
Avionics		AT	6312/6317 (6311)		
Ordnance/Armament	2W1X1	AO	6531 (6511)		Weapons
Egress	2A6X3	AME	6282/6287 (6281)		
Survival Equipment	2A7X4	PR	6048 (6048)	Survival Equipment	
Aircrew Life Support	1T1X1				

27 Training Courses Versus 4 Training Courses



Take Aways

- **Single Global Solution**
- **Joint approach across all 15 Services**
- **Must meet Warfighter requirements**
- **Must continue to push boundaries of what is ‘common’**
- **Must continue to refine and deliver strategy on data-driven decisions to reduce cost and operational risk**



Questions?

Gp Capt Pete Grinsted RAF
Deputy Director of Logistics & Sustainment
peter.grinsted.uk@jsf.mil