



F-35 Program Status and Weapons Roadmap

Precision Strike Annual Review 2012

Col Mark Werth
Director, Air System Requirements
703-601-5572

mark.werth@jsf.mil

21 March 2012





2012 Objectives

CTOL Flight Sciences

- LRIP 2 CCDD MVR Cleanup/LRIP 4i CCDD
 - Complete Fuel Dump Testing
- LRIP 3 CCDD MVR Cleanup
 - Complete Fuel Dump Testing
 - Complete Limited Symmetric Testing to Increase Mach from 0.90 to 0.95
- Initial Weapons Testing
 - Complete 1 GBU-31 and 1 AIM-120 Separation
 - Complete Limited Initial Environment Testing
- Support 2B Fleet Release
- 2013-2016 Capabilities



STOVL Flight Sciences

- Complete AAI Door Regression
- Begin KPP Perf Verification
 - VLBB and Cruise Performance
- Complete LRIP 4i CCDD
 - Complete Wet Runway
 - Complete STOVL ISR Propulsion System Regression
- Complete Initial Weapon Release
 - 1 GBU-12 & 1 GBU-32 Internal
- Begin AT-A/B & MS (BF-2,4 & 5)
 - Complete Initial AT-A Baseline
 - Complete LRIP 4i Maturity
- Support 2B Fleet Release
- 2013-2016 Capabilities



CV Flight Sciences

- Complete LRIP 4i
- Complete E28 & MK-7 Roll-in Arrestments at Lakehurst
- Complete Initial AT-A Baseline
- Support 2B Fleet Release
- Complete Wet Runway
- Conduct Ship Suitability
- 2013-2016 Capabilities



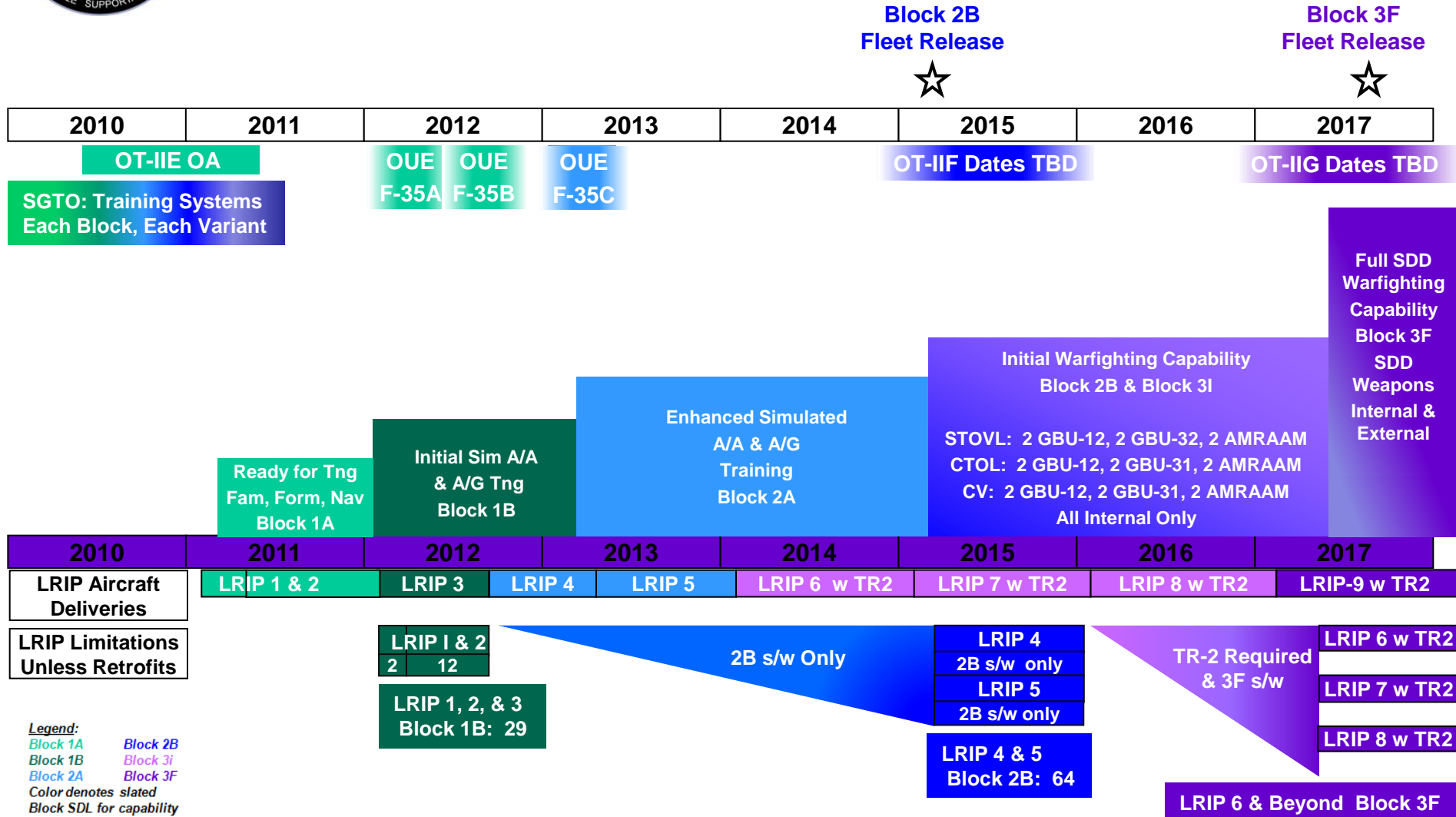
Mission Systems

- LRIP 4i Fleet Release
- Block 1 Clean-Up
- Block 2A (less LRIP 4i)
 - Basic Datalinks, Radar Mode Additions, Countermeasures, Fusion Updates, Wpn Captive Carry
- Block 2B
 - Adv Datalinks, Fusion Updates
- Complete AT-A Baselines for BF-17 & 18





Operational Program Milestones Alignment with LRIP Lots, Block SDLs, & Operational Testing





Weapons Integration Plan



EXTERNAL WEAPONS

INTERNAL

EXTERNAL WEAPONS

Block 2

- Only the F-35B is on contract to have weapons integrated in Block 2.
- As part of the program baseline review, we are trying to shift some weapons integration forward to reduce program risk



GBU-31 JDAM 2,000-lb
(BLU-109 Warhead)



GBU-12 Paveway II 500-lb LGB
(MK-82 Warhead)



2-AIM-120C AMRAAM

Block 3



AIM-9X Sidewinder



GBU-31 JDAM 2,000-lb
(MK-84 Warhead)



GBU-39
(SDB-I)



GBU-12 Paveway II 500-lb LGB
(MK-82 Warhead)



4-AIM-120C AMRAAM

CTOL Internal Gun



- Investigating possibility of adding Frangible Armor Piercing (FAP) combat round



F-35B Weapons Integration Plan



EXTERNAL WEAPONS

INTERNAL

EXTERNAL WEAPONS

Block 2



GBU-32 JDAM 1,000-lb
(MK-83/BLU-110 Warhead)



GBU-12 Paveway II 500-lb LGB
(MK-82 Warhead)



2 -AIM-120C AMRAAM

Block 3



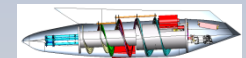
AIM-9X Sidewinder



GBU-12 Paveway II 500-lb LGB
(MK-82 Warhead)



4 -AIM-120C AMRAAM



Missionized Gun

• Investigating possibility of adding PGU-32 combat round



F-35C Weapons Integration Plan



EXTERNAL WEAPONS

INTERNAL

EXTERNAL WEAPONS

Block 2



GBU-31 JDAM 2,000-lb
(BLU-109 Warhead)

GBU-12 Paveway II 500-lb LGB
(MK-82 Warhead)

2 - AIM-120C AMRAAM

Block 3



AIM-9X Sidewinder

GBU-12 Paveway II 500-lb LGB
(MK-82 Warhead)

GBU-32 JDAM 1,000-lb
(MK-83/BLU-110 Warhead)

GBU-31 JDAM 2,000-lb
(MK-84 Warhead)

AGM-154A/C JSOW Glide Bomb

4 - AIM-120C AMRAAM

Missionized Gun

• Investigating possibility of adding PGU-32 combat round

UK Unique Weapons



AIM-132 ASRAAM



Paveway IV



Block 4 Candidate Weapons

Small Diameter Bomb, Increment II (SDB-II)

Joint Stand-Off Weapon (JSOW) C-1

Norwegian Joint Strike Missile (JSM)

Turkish Stand-Off Missile (SOM)

AIM-9X Block II

Additional Combat Rounds

Additional dual-mode bombs, such as Laser-JDAM



Weapons Stations



Station	11	10	9	8	7	6	5	4	3	2	1
Store	A/A	A/A, A/S	A/A, A/S	A/A, A/S	A/A	Gun	A/A	A/A, A/S	A/A, A/S	A/A, A/S	A/A
Capacity CV/CTOL	300	2,500	5,000	2,500	350	1,000	350	2,500	5,000	2,500	300
Capacity STOVL	300	1,500	5,000	2,500	350	1,000	350	2,500	5,000	1,500	300

Over 18K lbs Of Payload Capability



Questions?