



CAPT John Schiaffino F-35 TSS PMO



F-35 Training Systems and Simulation PMO Vision

Training Systems

Distributed Mission Training

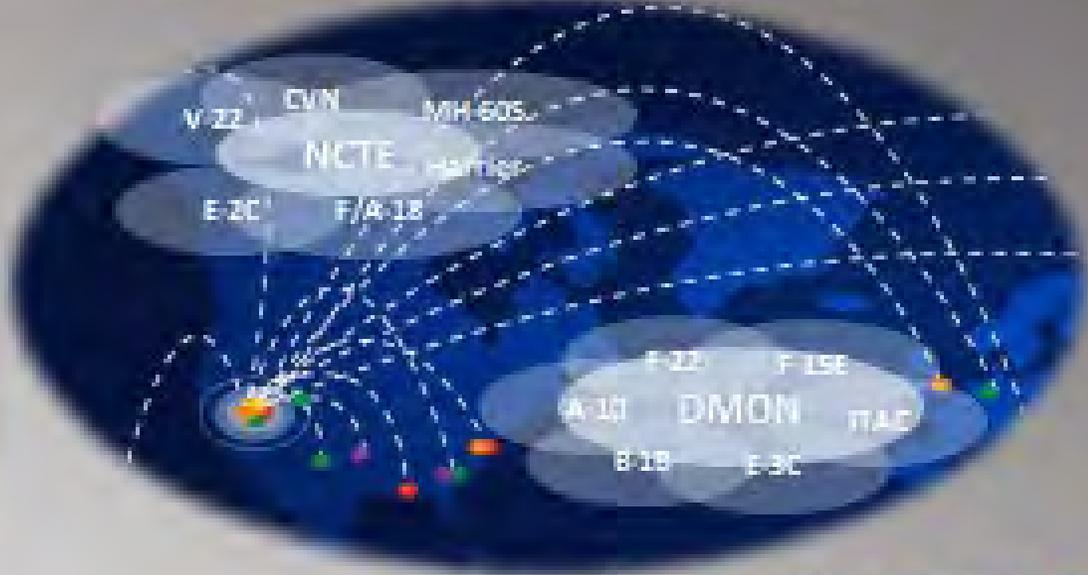
THRU

ADVANCED

BASIC



Enabling Lethality via a family of connected trainers in a high-fidelity environment



Networking F-35 FMSims globally
Virtual Constructive cross-platform training
Links multiple Sims via network

TRAINING

REUSE

Joint Simulation Environment

Gov't-owned, High Density Threat Environment

REUSE



FIAB

Integrates High-Fidelity models (F-35-In-A-Box, Red Forces, Blue Forces, weapons, datalinks) that provide an operationally relevant, simulated environment



Enables F-35 capability verification and experimentation via 14 simulators that can replicate Blue and Red Air. Leverage environment for Training



Effects Based Simulator that provides a scalable architecture across various hardware form factors (small, deployable) suitable for F-35 tactics development and training



F-35 Training Systems and Simulation PMO

Baselined to enable F-35 Lethality

Air Vehicle Alignment

Capability Insertion

Aircraft capabilities inserted into Trainers and JSE within 6wks of aircraft SW release

Threat Fidelity Improvement

Increased Threat to IAW User Priorities

Develop

Sim Interoperability

FMSims interacting across Service Networks enabling large-scale training

Next Gen Training 'Family' & Re-Architecture

Modular SW

Open HW & SW

Agile and modern Next Generation Trainers

Roadmap

FY22-27

- Aircraft Capabilities +6-wks into Pilot Trainers
- Threats are operationally relevant with realistic behavior
- JSE
- Complete IOT&E
- Transition to Block 4
- Small Footprint Trainer developed and fielded
- 100% FMSims DMT capable

Deliver



- 90 trainers and courseware delivered across the F-35 enterprise
- JSE: Air-System alignment for follow-on F-35 capability verification

- US Deliveries (FY22-27)
- Pilot Training Devices: 40
- Maintainer Training Devices: 2

Sustain



>150 Trainers across 20 sites



Optimizing Trainer Availability

FMSim Tech Refresh

CPFH Affordability Target by end of FY25

- Achieve FMSim Availability Targets by FY25
- FMSim Tech Refresh Phase 1 completed by FY23
- Achieve Training CPHH goals by FY25



Key Takeaways

Training and Simulation will be the ONLY way we can test and assess F-35 evolving capabilities

Training in an operationally relevant simulated environment = LETHALITY

Without a properly trained operator...it does not matter what the aircraft "*can do*"

To achieve the PMO Vision, and meet the training needs of the warfighter, proper resourcing and continued advocacy are required

