F-35 Training Systems and Simulation PMO Vision

Training Systems

THRU

ADVANCED

Family of Trainers
Aligned w/ Aircraft Capes
High-Fidelity Environment
Modern HW & SW Architecture

Joint Simulation Environment
Gov’t-owned, High Density Threat Environment

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

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

Networking F-35 FMSims globally
Virtual Constructive cross-platform training
Links multiple Sims via network
F-35 Training Systems and Simulation PMO
Baselined to enable F-35 Lethality

Air Vehicle Alignment
Threat Fidelity Improvement

**Develop**
Sim Interoperability

Next Gen Training ‘Family’ & Re-Architecture

Roadmap FY21-27
- Aircraft Capabilities < 6-wks into Pilot Trainers
- Threats are operationally relevant with realistic behaviors
- JSE: Complete IOT&E
- Small Footprint Trainer developed and fielded
- Open Systems SW delivered
- 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

**Sustain**

- >150 Trainers across 20 sites
- FMSim Tech Refresh
- CPFH Affordability Target by end of FY21

- Aircraft capabilities inserted into Trainers and JSE within 6wks of aircraft SW release
- Increased Threat #s IAW User Priorities

FMSims interacting across Service Networks enabling large-scale training

Optimizing Trainer Availability

FY21: Deliver 11 Trainers
US Deliveries (FY21-27)
- Pilot Training Devices: 40
- Maintainer Training Devices: 2

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