

# *Headquarters Air Combat Command*

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## *CAF LVC Requirements*



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**This Briefing is:  
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# CAF Training LVC Components

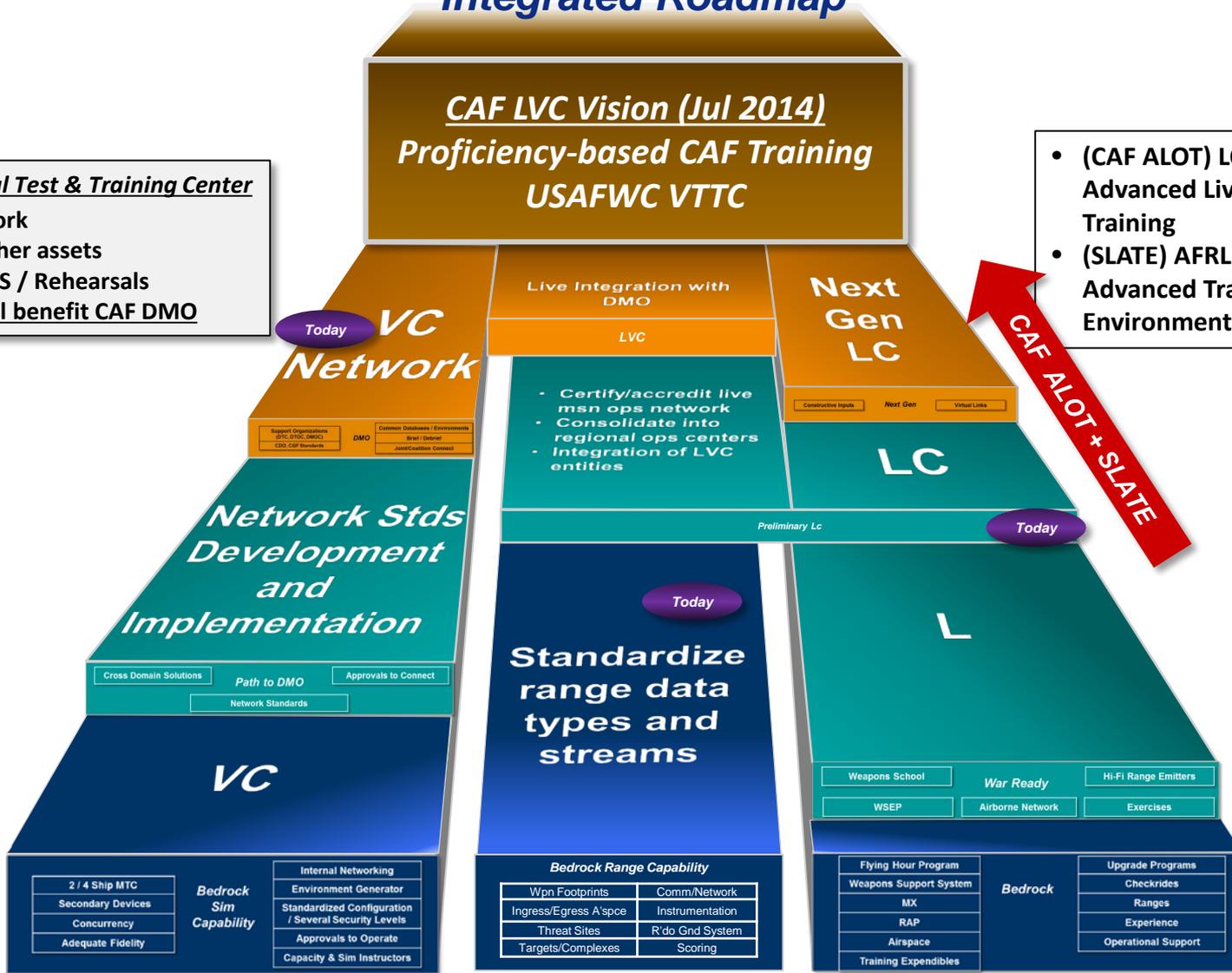
## Integrated Roadmap

**CAF LVC Vision (Jul 2014)**  
**Proficiency-based CAF Training**  
**USAFWC VTTC**

### USAFWC Virtual Test & Training Center

- Closed network
- Leverages other assets
- WS / CONOPS / Rehearsals
- Upgrades will benefit CAF DMO

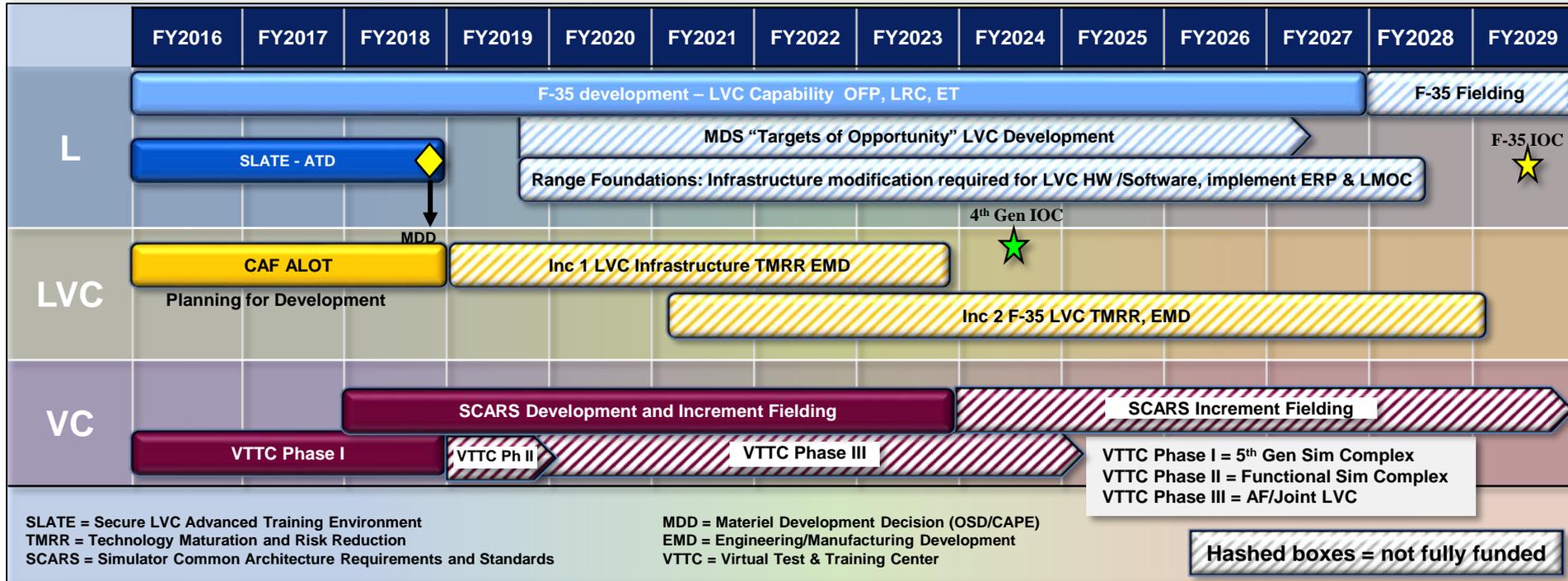
- (CAF ALOT) LCMC/XZA – CAF Advanced Live Operational Training
- (SLATE) AFRL - Secure LVC Advanced Training Environment



**Future of "Full" LVC training TBD from COMACC meeting – Feb 2019**



# Proposed LVC Schedule



- Range Infrastructure modifications (LMOC, ARTS v1-4) based on ERP
- SLATE ATD & CAF ALOT results will drive “blended” LVC decision
- Need for advanced, concurrent simulators & DMO connectivity
- VTTC – multi-phase for virtual hi-end advanced TTP development

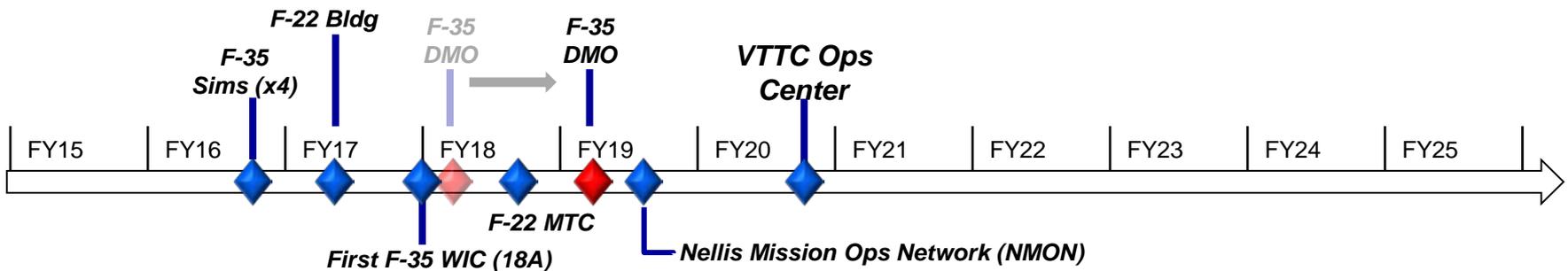
Advanced training capability requirements based on Readiness and COMACC’s Future Faster initiative



# Virtual Test and Training Center

## Phased Approach

- Phase I – 5<sup>th</sup> Gen Sim Complex (present – 2018)
  - F-16 MTC, F-35 FMS, F-22 MTC, JTAC SIM
- Phase II – Functional Sim Complex
  - Ops Center, AWACS 40/45 MCTS, F-15C MTC, F-15E MTC
  - F-35 DMO connection delayed (FY19)
- Phase III – AF/Joint LVC (2020-2025)
  - Integration across warfighting domains (air, space, cyber, land, sea)
  - VTTC-Fallon Integration via Joint Simulation Environment (JSE)



CAF DMO benefits from advancements made for the VTTC



# *Blended LVC Training Concept*

- **Complex scenarios in the aircraft**
  - Secure, encrypted LVC training datalink
  - Minimize physical footprint – fewer live adversaries / tgts / emitters
- **Virtual training – develop the major muscle movements**
- **Increase training capacity in the jet by adding DMO quality complexity to live training**
- **LVC & learning mgmt tech provide data from the jet equal to that from the sim**
- **Efficient mission planning and post msn review**



**Adaptive, targeted training – increase learning curves & manage skill decay**

