• Program Office Overview, challenges, and org structure
• What’s on the plate
• Boston
• Vision
• OTI
• End state
• Approximately 480 members strong
• Manage 50+ programs and provide direct support to 8 MAJCOMs across the air & SOF domains

• Portfolio includes 2,300+ Training devices and configurations worldwide
• In FY17, executed >650 contract actions and managed $2.7B across 9 different appropriations
Simulators Program Office Challenges

• Managing diverse and dissimilar portfolio of simulator programs
• Balancing ops tempo, source selections, and training continuum
• Resource constraints
• Hardware and software obsolescence
• Cyber compliance difficult with 2,300+ training devices (most in sustainment) with a wide variation of configurations
  • Exacerbated by procurement approach
    • Not bought in lots (i.e., aircraft production)
    • Incrementally procured over decades to meet platform’s operational training requirements
What’s on the Plate

• Many source selections on the horizon or underway
  • B-52 Training System
  • F-16 Simulator Training Program
  • KC-135 Training System
  • C-130 Training System
  • B-1 Training System
  • KC-10 Training System
  • PMATS
  • SCARS
  • C-130J MATS
  • MAF DMO
“In every revolution, there is one man with a vision”

Vision – “...a realistic, integrated training environment that allows our forces to train in an operationally and tactically relevant employment scheme to achieve and sustain full-spectrum readiness.”

Air Force has identified 13 OTI LOEs required to achieve the OTI vision.

1. Funding Strategy  
2. Human Capital Plan  
3. Synthetic-to-live capability  
4. Data and Technical Standards  
5. Acquisition Policy  
6. Acquisition Oversight  
7. Institutionalize OTI  
8. Relevant Threat Environment  
9. Quality Metrics  
10. Joint Interoperability  
11. Multinational Interoperability  
12. Common Architecture  
13. Exercise Oversight
Some challenges/areas to consider:
- Differing underlying hardware/software configurations
- Baselines managed individually by platform
- Obsolescence
- Current fleet of simulators were never designed to work together

“In short, the current operational training infrastructure does not provide many of our operators with realistic and relevant operational training environments.”

AF OTI Flight Plan
Simulators should look a lot more like smart phones...

- Smart phones have largely standardized into one of two dominant designs: Apple iPhone and Android
  - Customer reqmts satisfied via “Apps” that ride on architecture
  - Architectures governed by standards and defined interfaces
- Training devices must adopt a similar paradigm
  - Common underlying architectures--economies of scale
    - Hardware, software, application, firmware all considered
  - Modularity supports rapid update pace driven by cyber threat
    - Reduced regression testing
New ecosystem provides a common training environment for all operational training and allow us to restore readiness and conduct mission rehearsals.

Brachiate
Centralized Equipment and Services

Testbed
- Patch Repository
- App Management

Library

Centralized Security Operations and Services

Management Services includes:
- Standards, Standards support, Hosting support
- Manage SCARS Engineering Capability Boards (SECB), Configuration Management, SCA Sustainment and Product Support Activities

Local Equipment for Hosting Apps
RMF security event (Not persistent)

As of 17 Oct 2017
Supporting OT Segments
Multiple Users - Organized - Common Framework
• Build a foundation that is cyber hardened and secure
  • Responsive to cyber updates without excessive regression testing burden

• Achieve agility via modularity ➔ Deliver capabilities to Warfighter faster
  • Increases ability to remain concurrent with aircraft updates

• Reduce training system development and sustainment life cycle costs
  • Realize economy of scale ➔ One change upgrades many systems

• Establish open architecture requirements and standards
  • Leverage industry’s best practices/products while reserving government purpose rights
  • Minimize proprietary “vendor lock”

Gain efficiency by establishing a common foundation which eliminates duplication
Focusing on developing commons and standards that support training requirements