



PEO STRI

Introduction to the Army Common Control System (ACCS)

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Targets Management Office



Outline

- Overview
- Transition
- Capabilities
- Schedule
- Teaming Efforts
- Summary



ACCS Overview

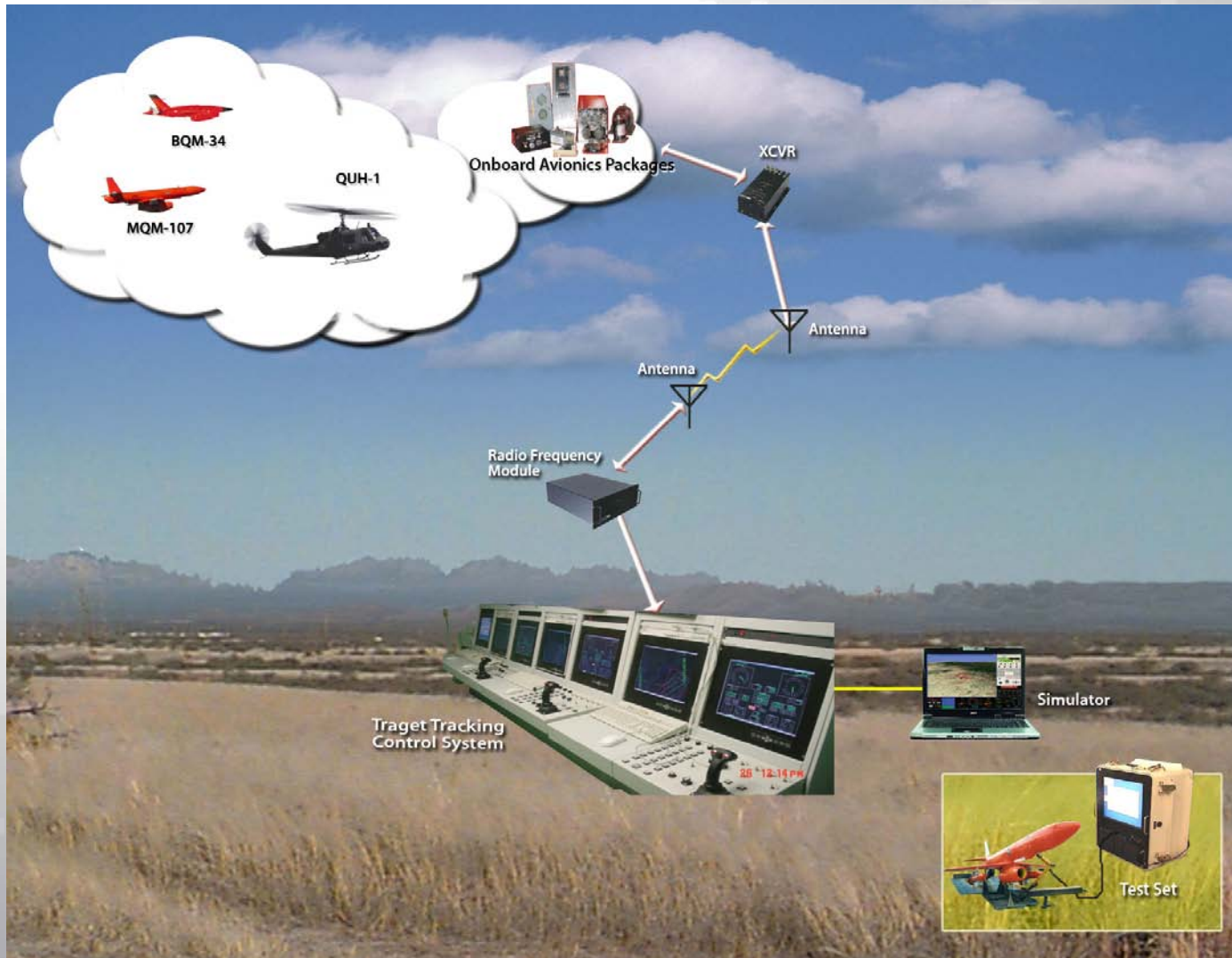


- Army target control system for TMO aerial and ground targets
- Leverage the current Target Tracking Control System (TTCS), vehicle avionics, and test set technology
- Meets DoD Information Assurance Certification and Accreditation Process (DIACAP)
- ACCS will be the primary rotary wing, ground target, and subscale aerial target control system for Army



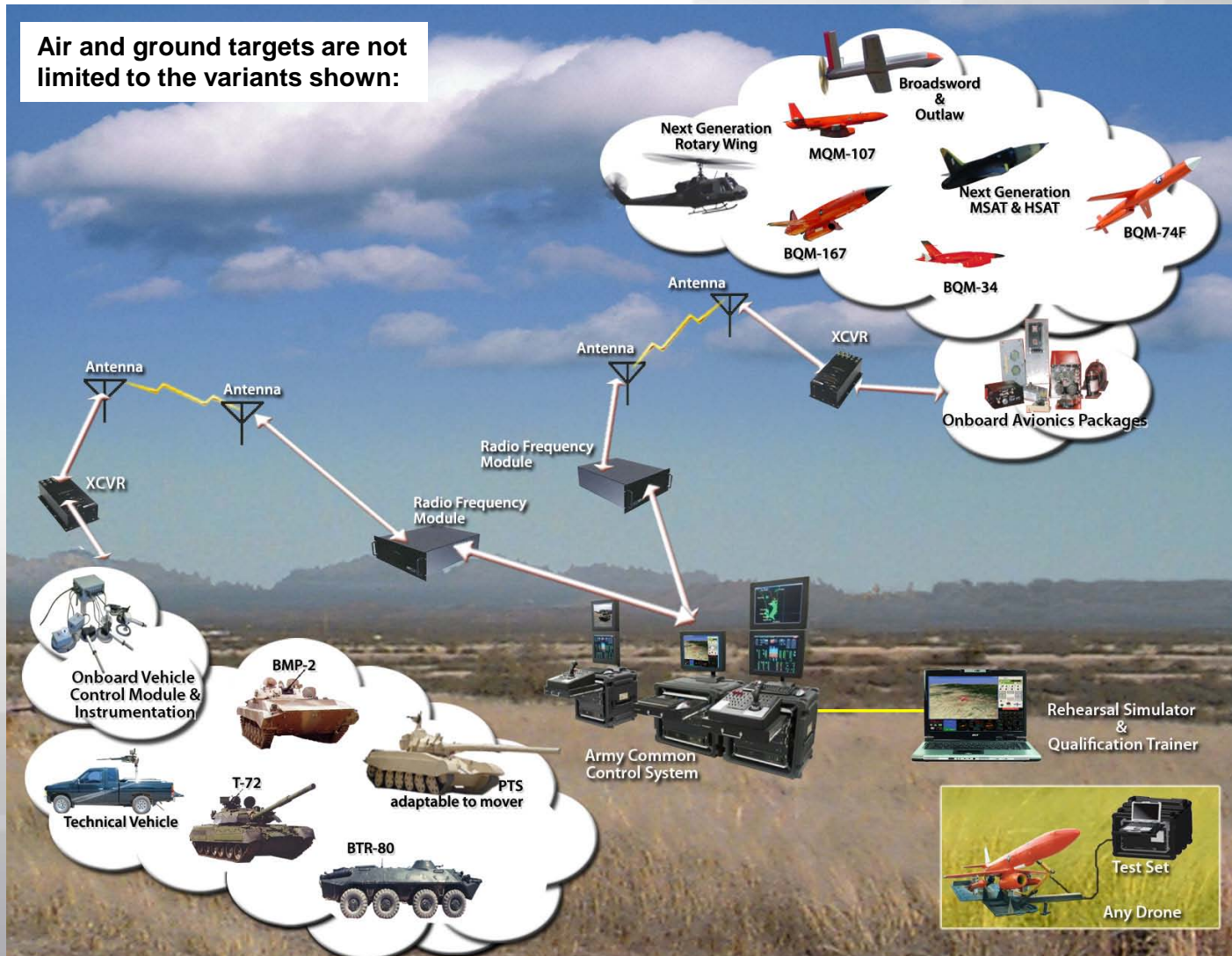
ACCS Concept

Existing Target Tracking Control System (TTCS) OV-1



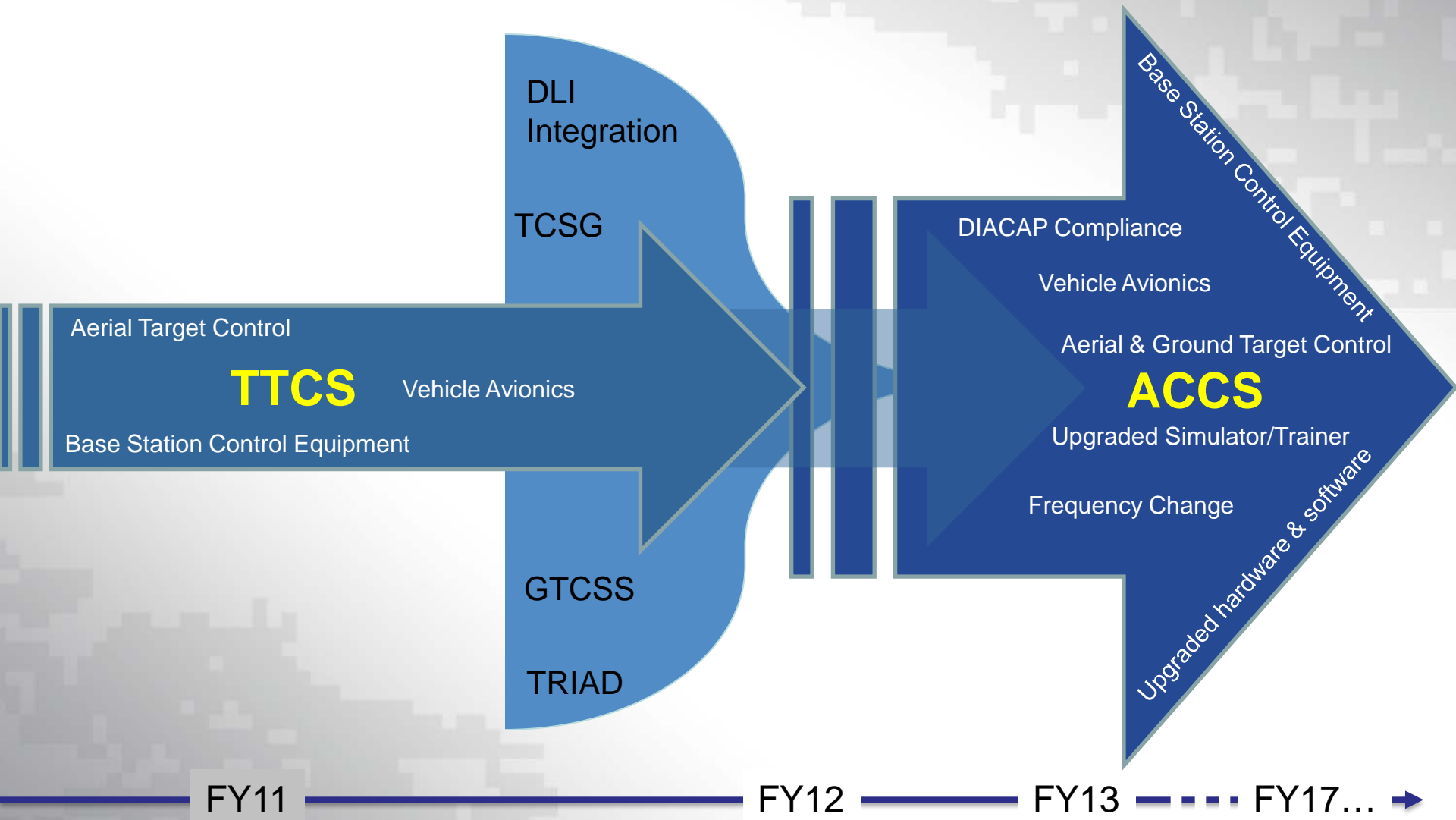
ACCS OV-1

Air and ground targets are not limited to the variants shown:





Way Ahead





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ACCS Capabilities

Aerial Target Control

- Provide control of up to 8 airborne targets simultaneously
- Support 2 targets on a single Data Link frequency
- Direct mode (1 target @ 10 Hz or 2 targets @ 7 Hz)
- Target Relay mode (1 target @ 6.5 Hz or 2 targets 4.5 Hz)
- Dedicated Relay mode (1 target @ 5 Hz or 2 targets @ 3.7 Hz)
- Provide GPS differential corrections to the targets (target dependent)

Ground Target Control

- Control of tracked and wheeled vehicles
- Waypoint movement, GPS guidance
- Collision avoidance
- Control of vehicles in formation



Existing Ground Target Locations and Control Systems



ITT developed control system

Central Asset Pool (CAP)
(Spares/Float) (YPG)

Yuma PG, AZ



In house developed control system



WSMR, NM

SRTGT & In house developed control system



Eglin AFB, FL
AFDTC

Kairos Autonomi developed control system



Aberdeen PG, MD

In house developed control system

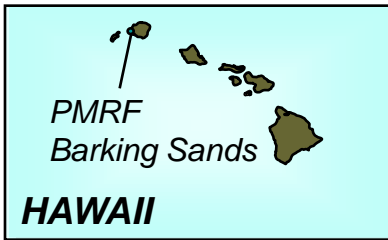
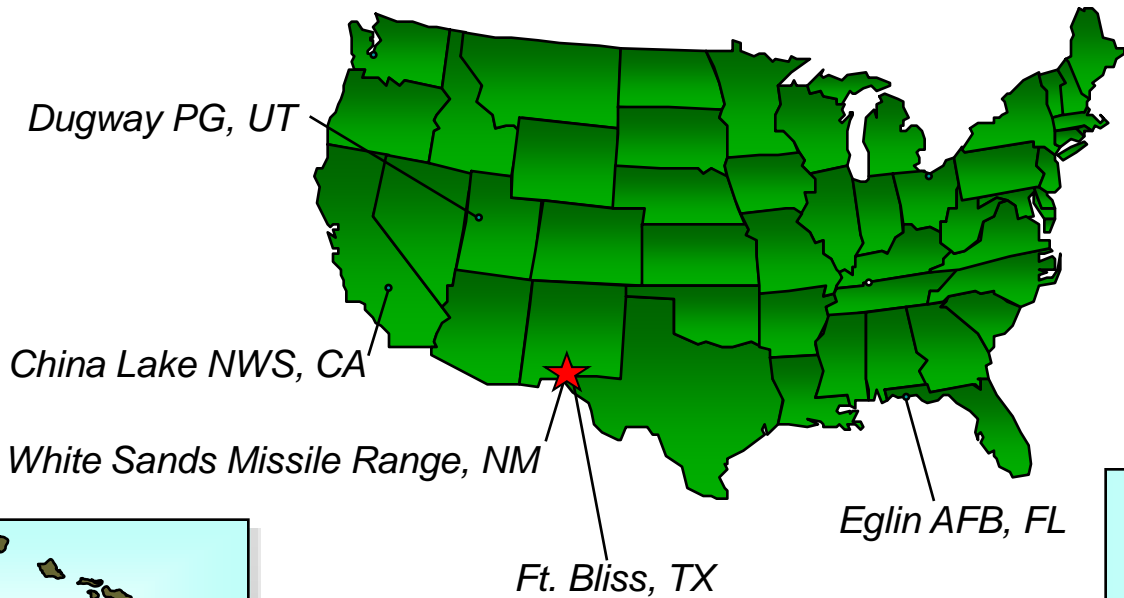
Redstone Arsenal, AL



Each system is independently developed and operated



TMO Aerial Target Operating Locations

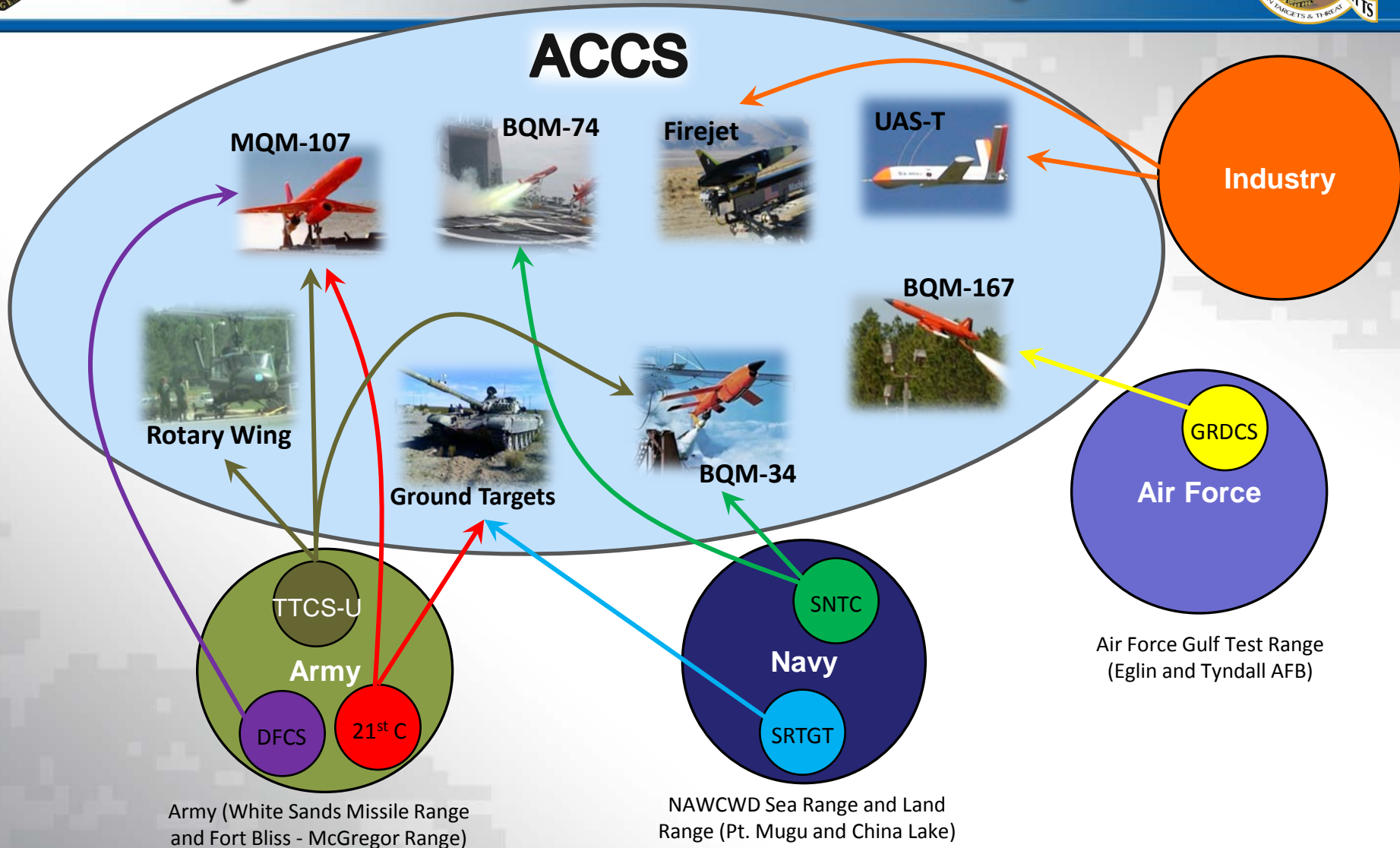




Army Common Control System



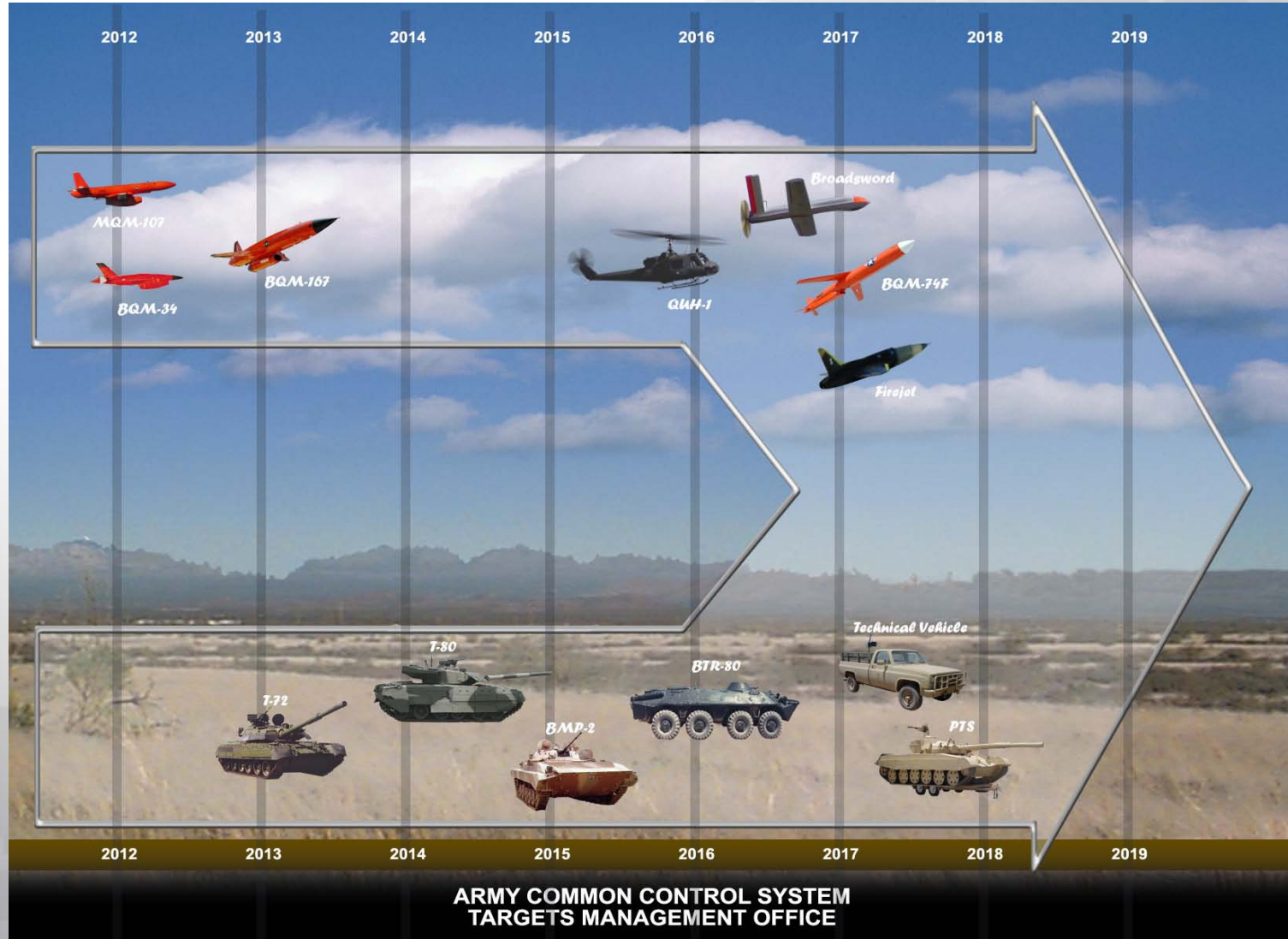
ACCS



Leveraging existing technology to develop the control system for targets of the future



ACCS Schedule



Concepts



Fixed Site



Portable Test Set



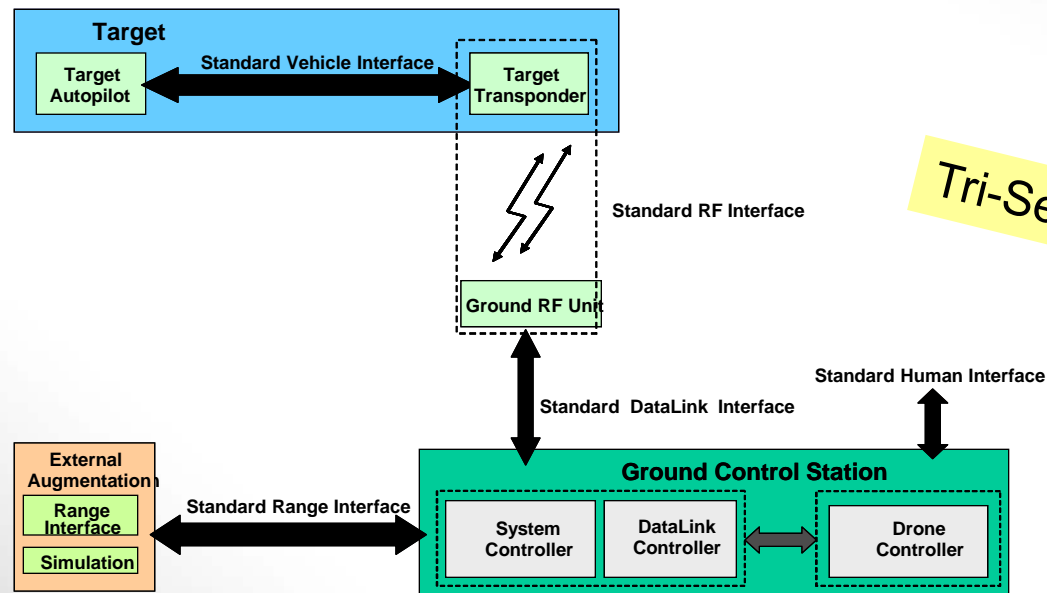
Rack Mounted and Portable Hardware



Target Control Steering Group (TCSG)



- Navy lead Office of the Director, Operational Test and Evaluation (DOT&E) Target Management Initiative (TMI)
- Standardize data interfaces between ground control system, ground radio frequency unit, and target transponders



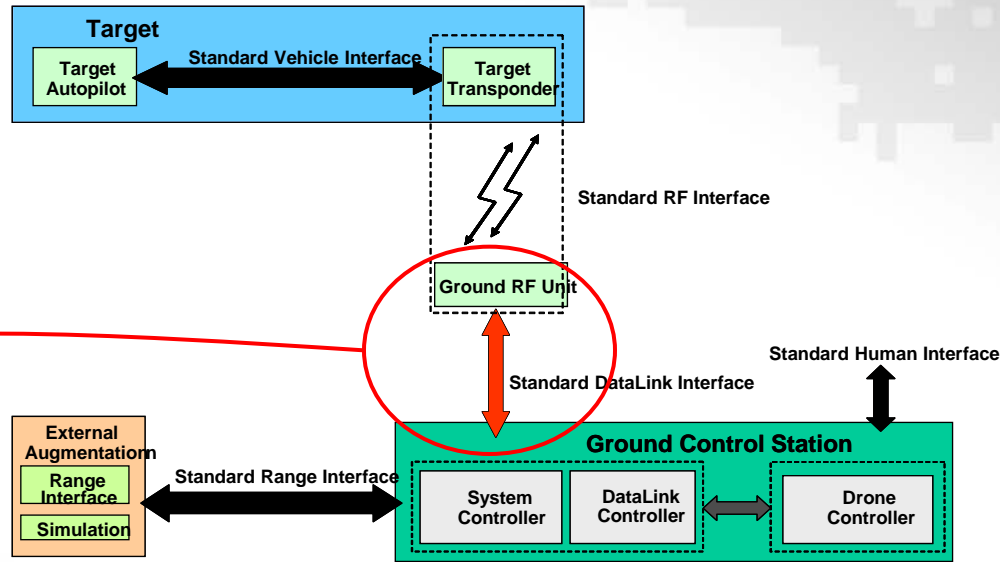
Tri-Service Initiative

- Increase interoperability between all services control systems

Goal : Control Any Target with Any Ground Station



TCSG Data Link Interface (DLI) Integration



- Review DLI for Integration into the Army control system
- Integrate the DLI natively into the control system
- Perform factory qualification tests to certify the DLI integration for field ground testing
- Update user manuals to support field tests
- Conduct required flight test



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Summary

- ACCS starts in FY12
- ACCS will meet DIACAP
- Provides Aerial and Ground Target Control across multiple ranges
- Incorporates all TMO T&E Targets into a Single Control System
- Upgrades Hardware and Software for Avionics Packages, Test Sets, and Control System
- Incorporates the standard DataLink Interface developed as part of the TCSG TMI