

National Defense Industrial Association

War-Winning Capabilities...On Time, On Cost

Common Range Integrated Instrumentation System (CRIIS)



Mr. Mike Sorial
CRIIS Program Manager
850-883-3601
mike.sorial@eglin.af.mil

Distribution Statement A:
Approved for public release.
Distribution unlimited.

This briefing is: UNCLASSIFIED

Evolution of Test and Training Instrumentation

1977

1980

1987

1989

1990

1994

1996

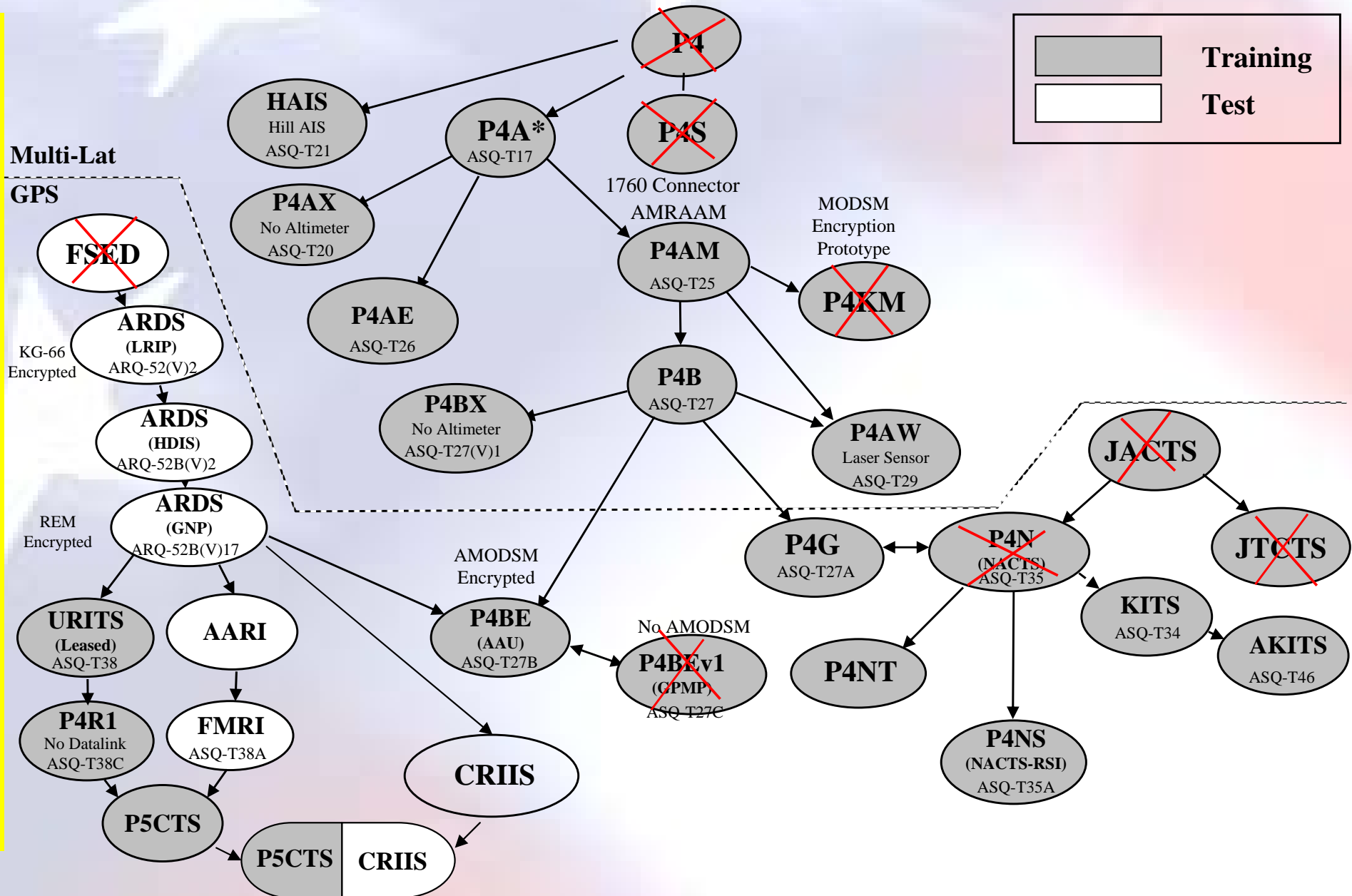
1998

2000

2002

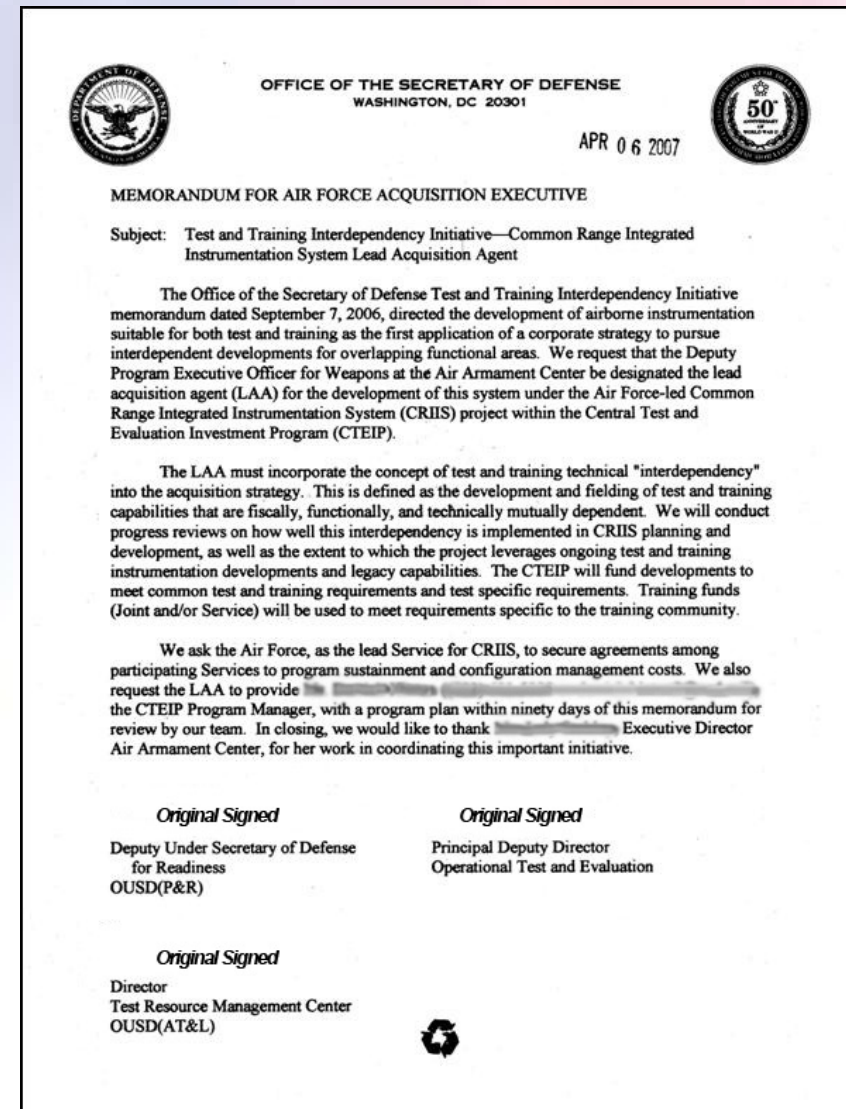
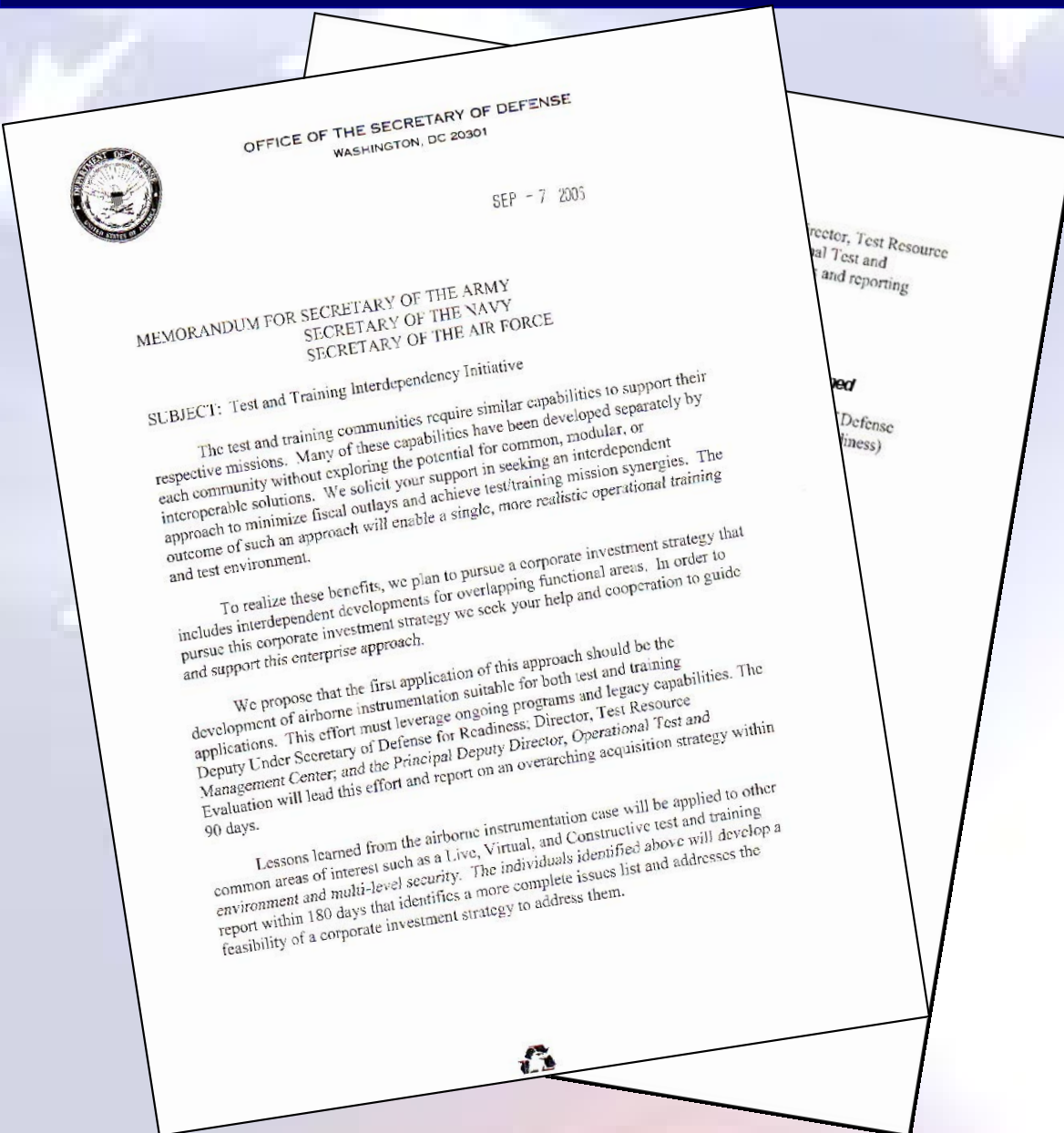
2004

Future



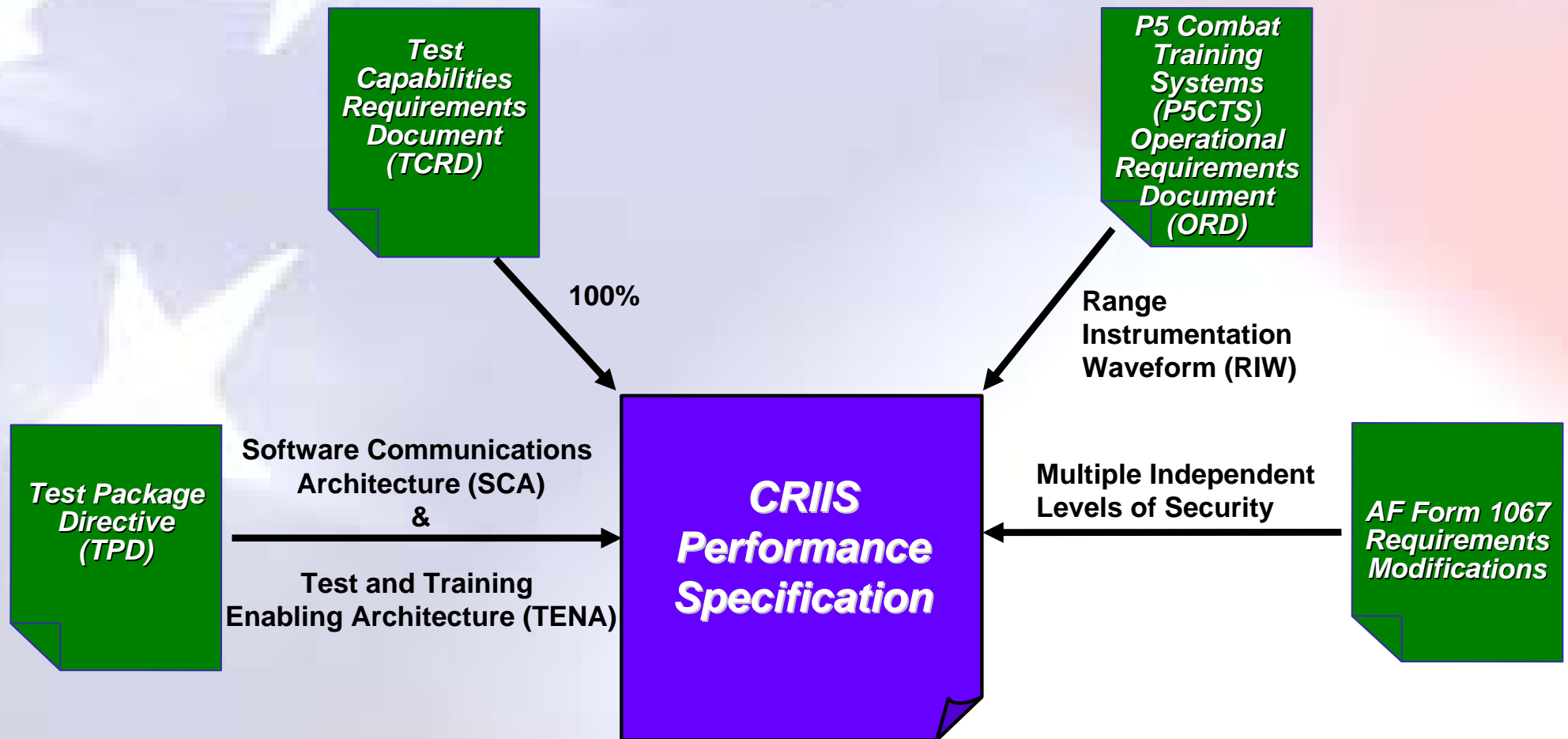
Memos, Memos Everywhere

Direction To Proceed with CRIIS



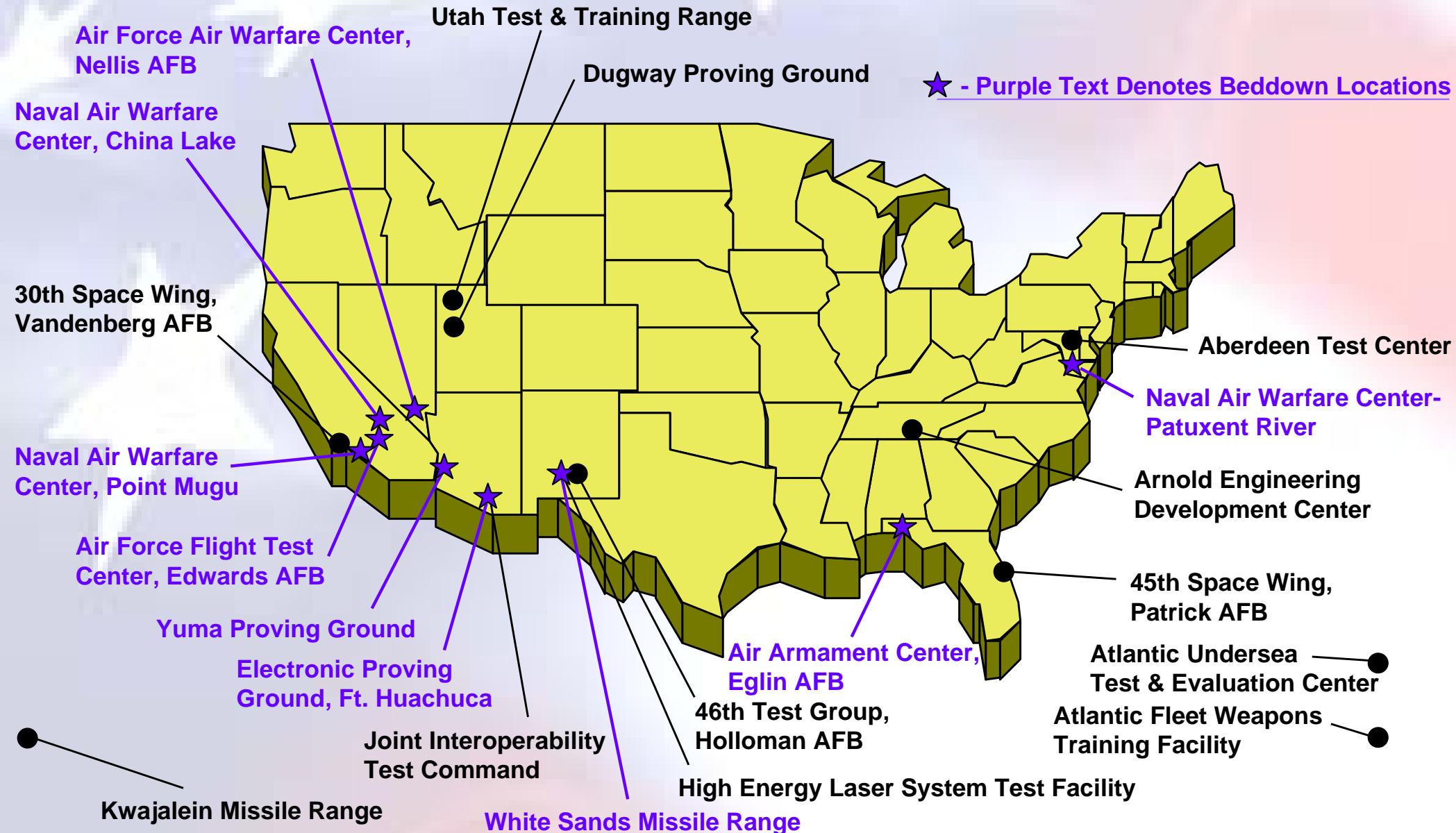
Find Common Ground Between Test and Training Instrumentation

Requirements Relationships

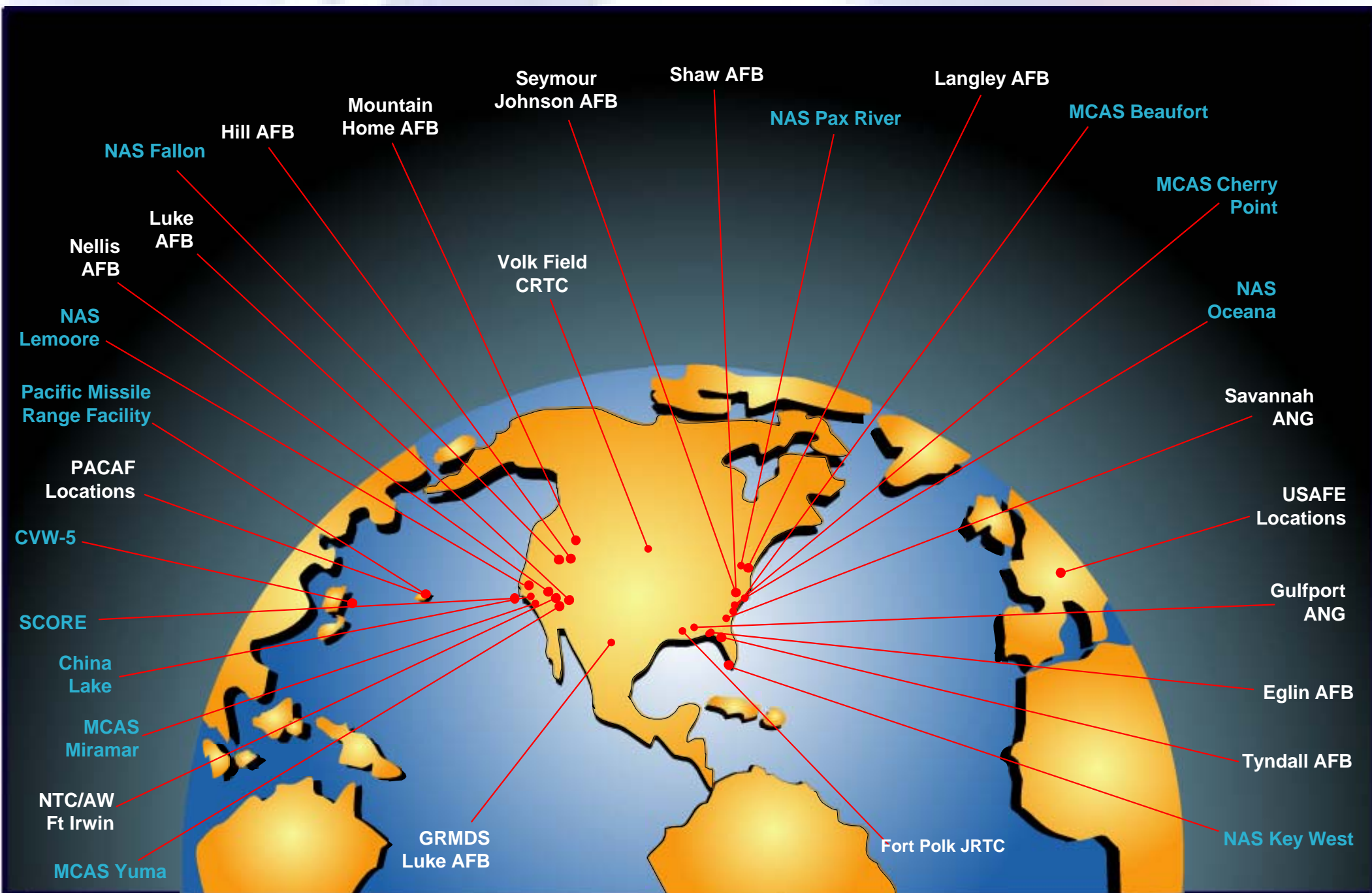


Managed by Requirements Control Working Group

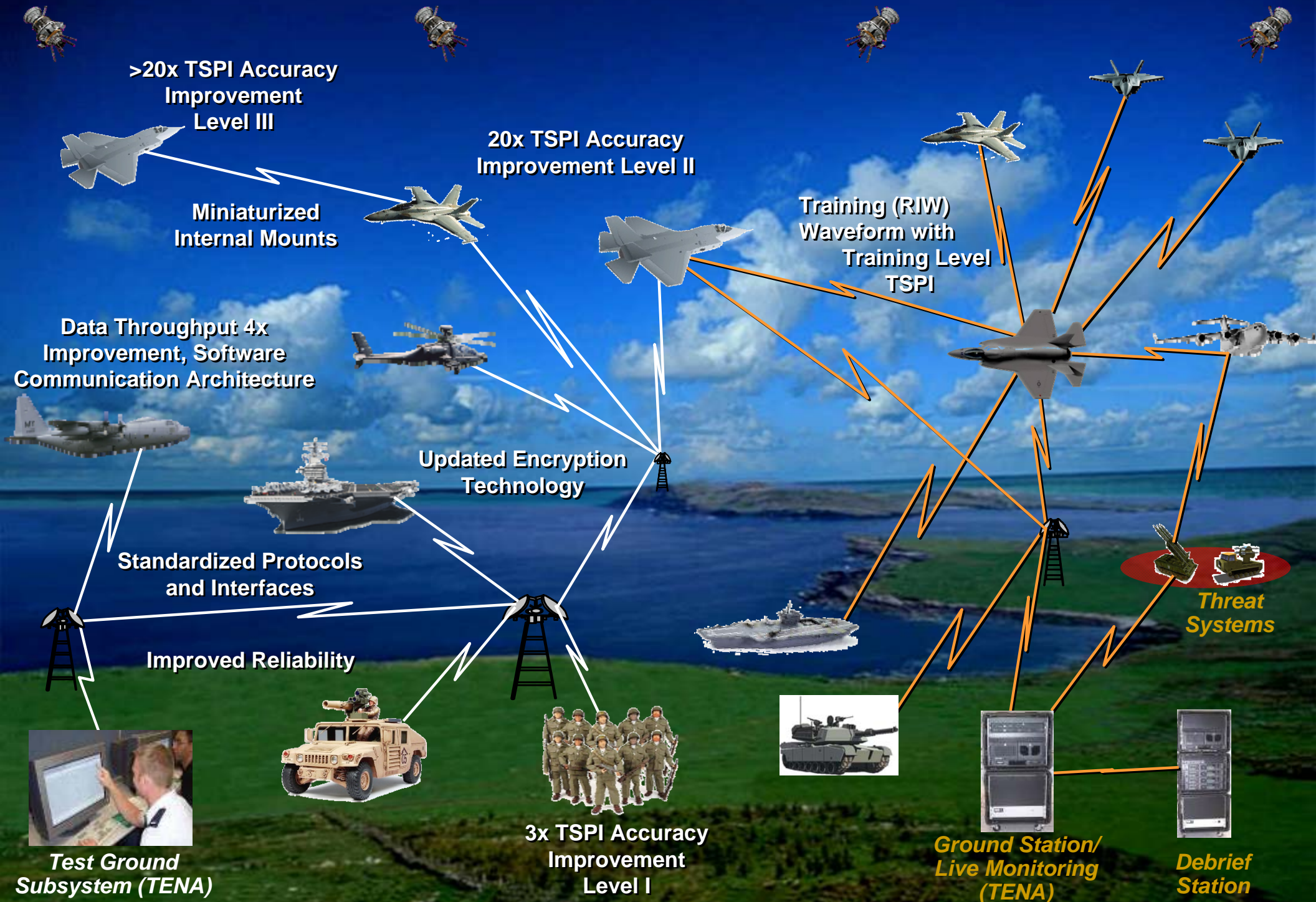
Major Range and Test Facility Base (MRTFB) and Initial Beddown Location



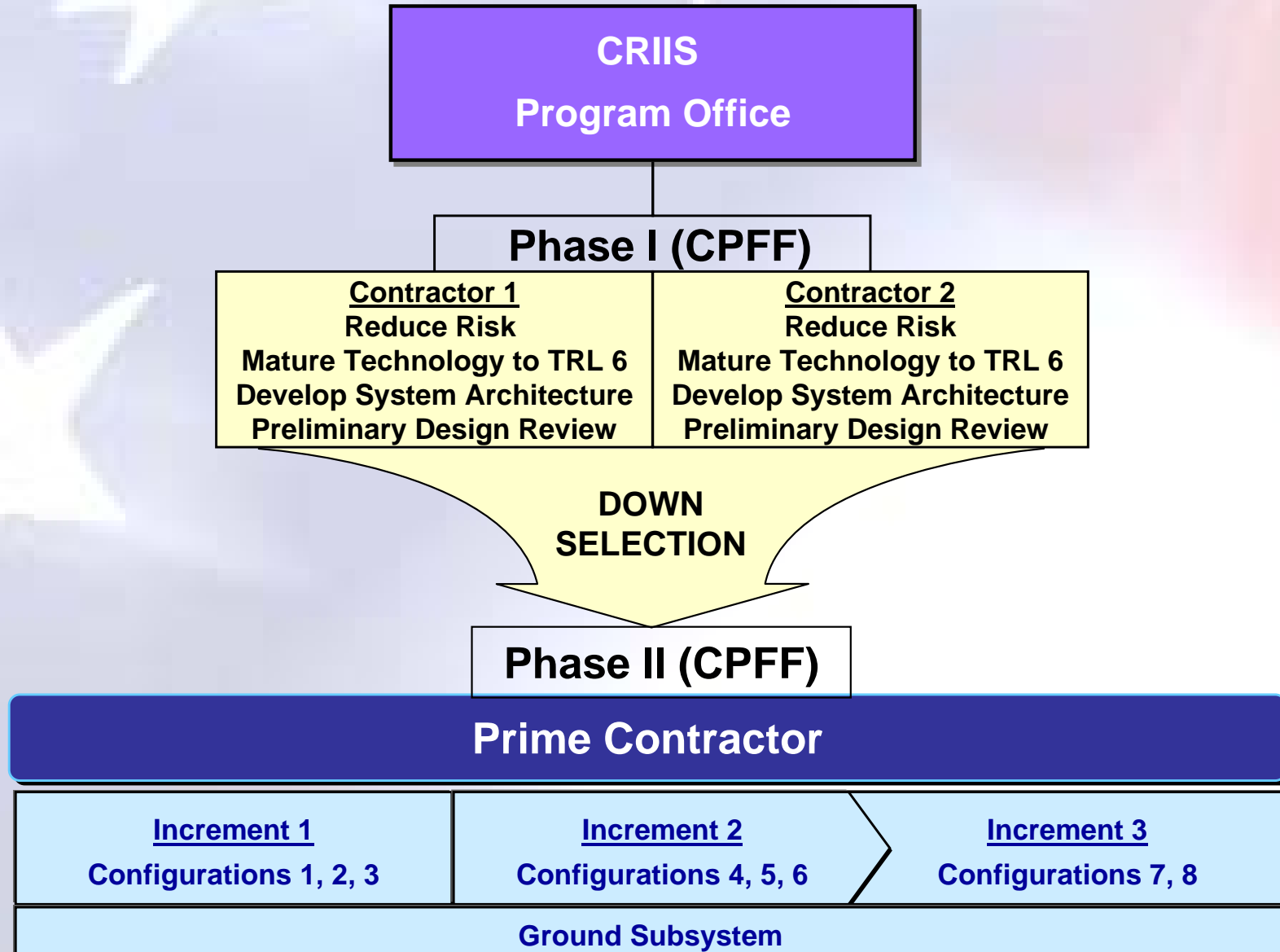
Where We Train Today



Common Range Integrated Instrumentation System



Program Acquisition Approach



CRIIS Increments & Configurations

Training and Test

INCREMENT 1

Configurations 1, 2, 3



Config. 1
Dismounted Soldier

Level IA TSPI
Short Range DL
Encryption



Config. 2
Low Dynamic Vehicles



Config. 3
Ship-to-Shore

Level IB TSPI
Extended Range DL

INCREMENT 2

Configurations 4, 5, 6

Level II TSPI
High Throughput DL
Encryption



Config. 4 Pod



Config. 5 Moderate Accuracy
Multi-Package Internal Mount



Config. 6 Moderate Accuracy
Single Package Internal Mount

INCREMENT 3

Configurations 7, 8



Config. 7 High Accuracy
Multiple-Package Internal Mount

Level III TSPI
High Throughput DL
Encryption

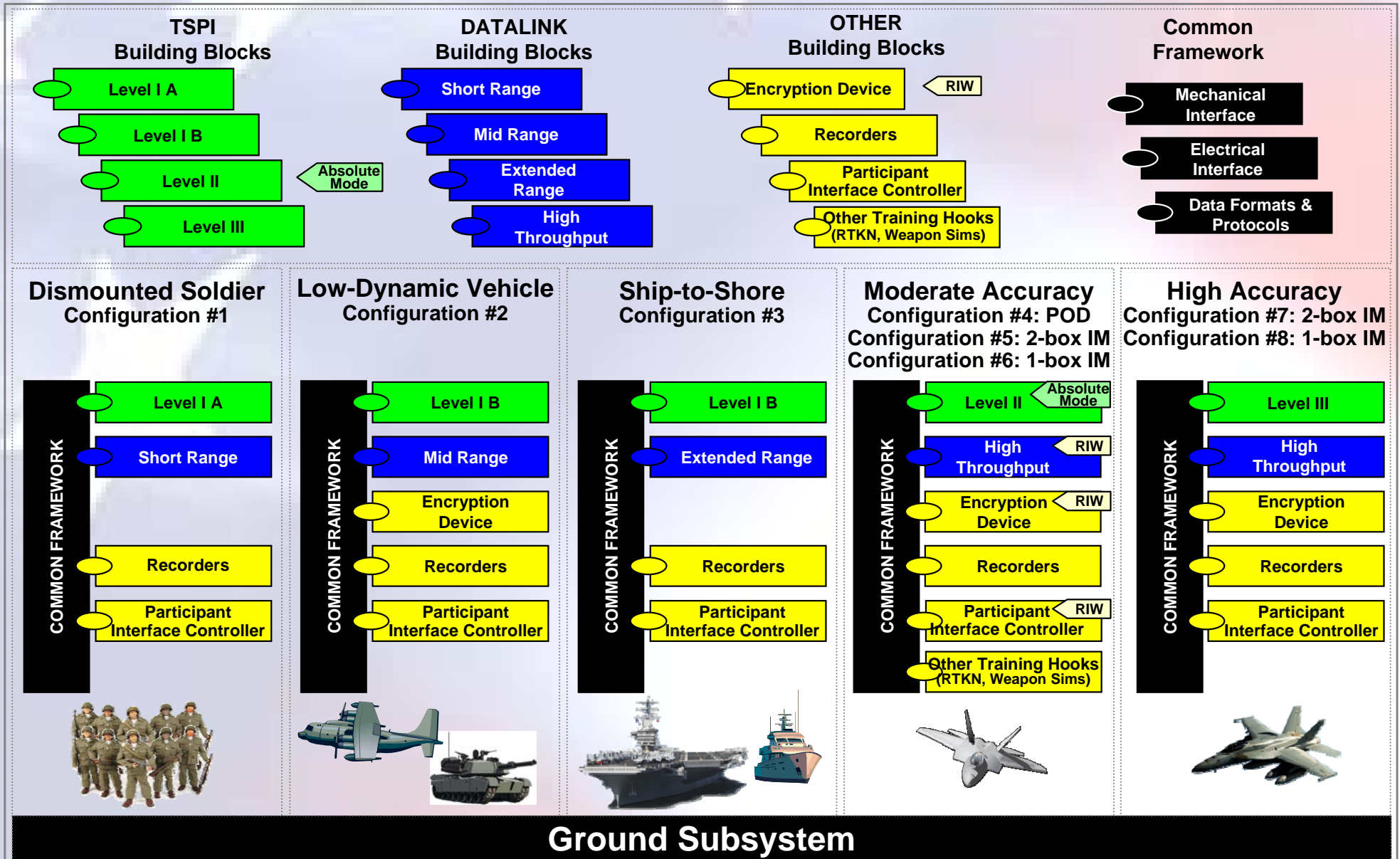


Config. 8 High Accuracy
Single Package Internal Mount

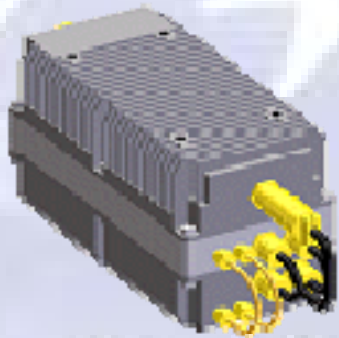
RIW/Training Hooks

Ground Subsystem (GS)

Architecture Approach



Key Technologies



Datalink



Antenna



GPS Receiver Module



Recording Device



Participant Interface Unit



Inertial Measurement Unit



Encryption Device



Antenna



Ground Subsystem

Key Working Groups

Test & Training Enabling Architecture (TENA)

**Integrated
Test Team**

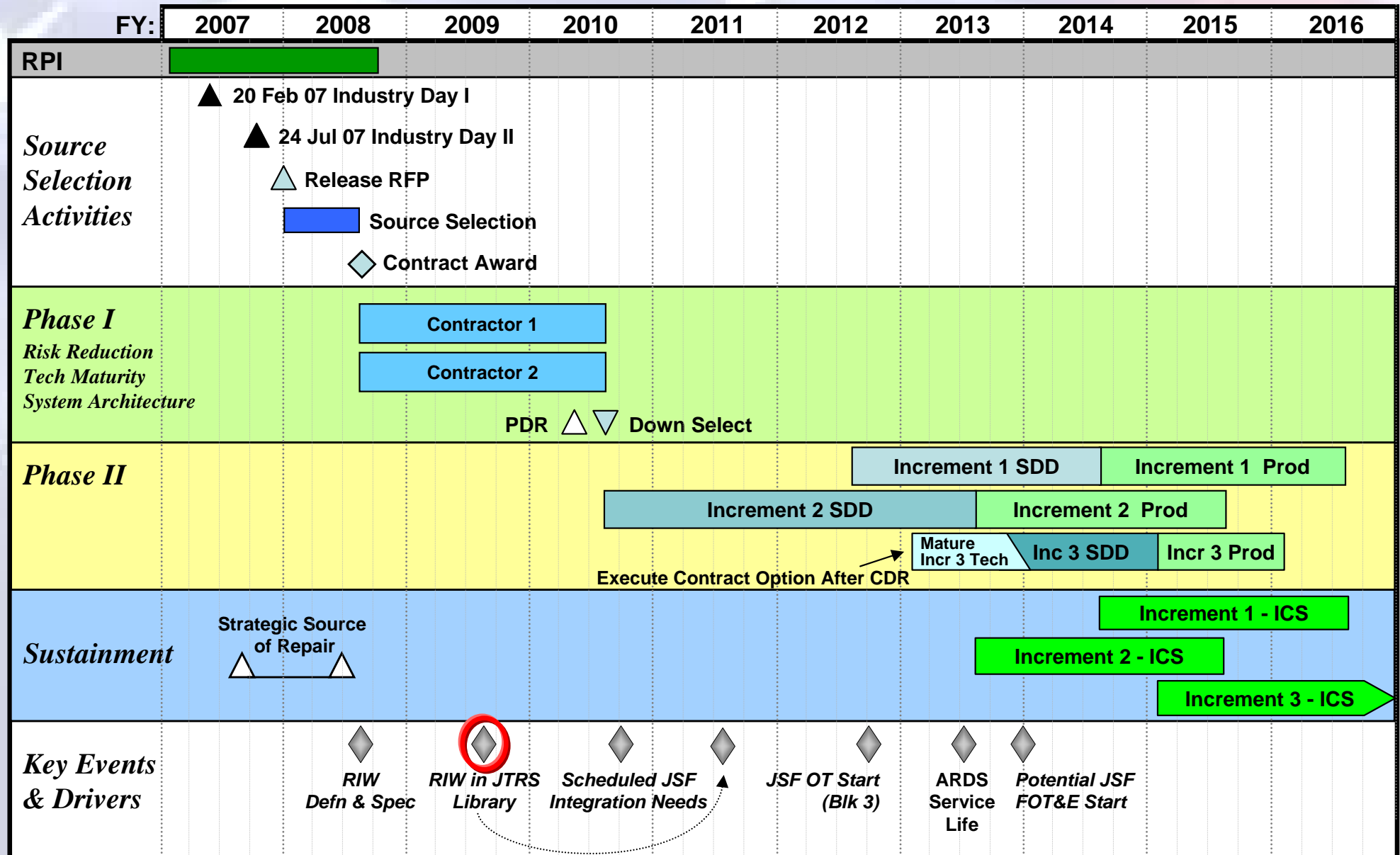


**System
Security**

**Joint Tactical Radio
System (JTRS)**

**Frequency
Allocation**

CRIIS Program Schedule



Test & Training Approach

Phase II

INCREMENT 2

Configurations 4, 5, 6

Level II TSPI

High Throughput DL
Encryption



Config. 4 Pod



*Config. 5 Moderate Accuracy
Multi-Package Internal Mount*



*Config. 6 Moderate Accuracy
Single Package Internal Mount*

MILS

+

"The Hooks"

Participant
Interface
Controller (PIC)
Delta

DLT RIW Capable

PORT RIW

TSPI

Training Debrief

Enables Testing
(OT/FDE/TDE) in a Training
Environment
"Interoperability"

Basic CRIIS System

- **Maturing Technology Readiness**
- **Lowering Integration Risks**
- **Maximizing Open Architecture for Future Growth**
- **Interoperability with Training Achieved Through Datalink**