



DCN: 10262

Installation Visualization Tool (IVT) Overview

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IVT Background

- BRAC 2005 encouraged OSD to introduce IVT as a cross-service spatial data capability to complement rigorous analyses
- BRAC Policy Memo 1 requires use of IVT by Services
- OSD tasked Air Force (GeoBase) to lead IVT for BRAC 05, in partnership with existing Army and Navy GIS programs (Navy – GeoReadiness) (Army – GIS-Repository)
- OSD funded services in FY 2003 for IVT (Aug 15 03)



IVT Background

- IVT is new tool
- Very early in implementation
- Services began weekly meetings to finalize requirements 2 weeks ago
- OSD funded services in FY 2003 for IVT (Aug 15 03)



OSD Expectations for IVT

Leverage Existing Service GIS Investments

Secure Economies from “One Installation... One Map”

Design for Long-Term, Deliver in the Short-Term

Allow Services to Build Upon a Common Framework

**Build a Sustainable, Accurate Geospatial Information
*Capability***



IVT v1.0 (BRAC) Objectives

- Deliver situational awareness for BRAC '05 deliberations
- *Supplement* rigorous analyses with visualization tools
- Visualize DoD installations and ranges
- Visually portray expansion potential
- Leverage existing DoD installation mapping investments
- Include approximately 150 Army Installations
- OSD to fund data consolidation/imagery purchase
 - 1m color and panchromatic
 - NIMA pays Title 50 costs
- Army Installations will receive copies of 1m imagery

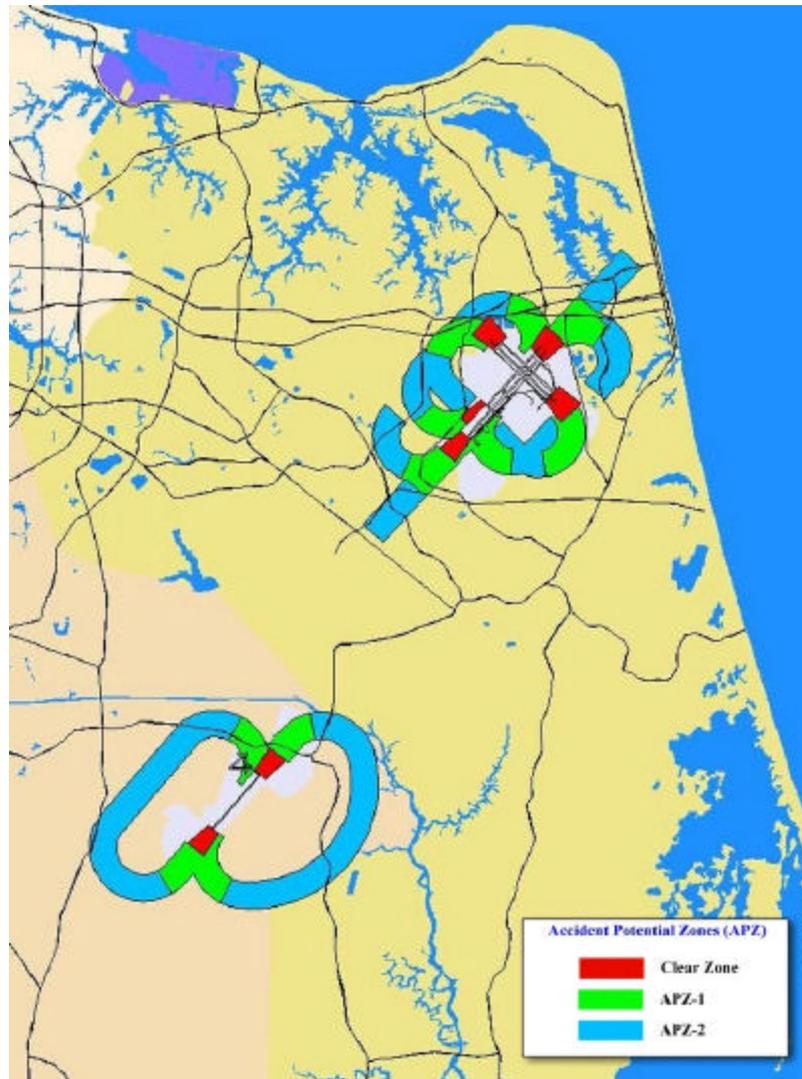


Feasible IVT Visualization Requirements by Apr 04

- OSD purchasing 1m/5m Satellite Imagery
- Installation Boundary
- Range Complex
- (Operational) Noise Contours (Day-Night Average Sound Level)
- Clear Zones and Accident Potential Zones 1 and 2
- Explosive Safety Quantity-Distance (ESQD) Arcs
- 100-year Floodplains
- Wetlands

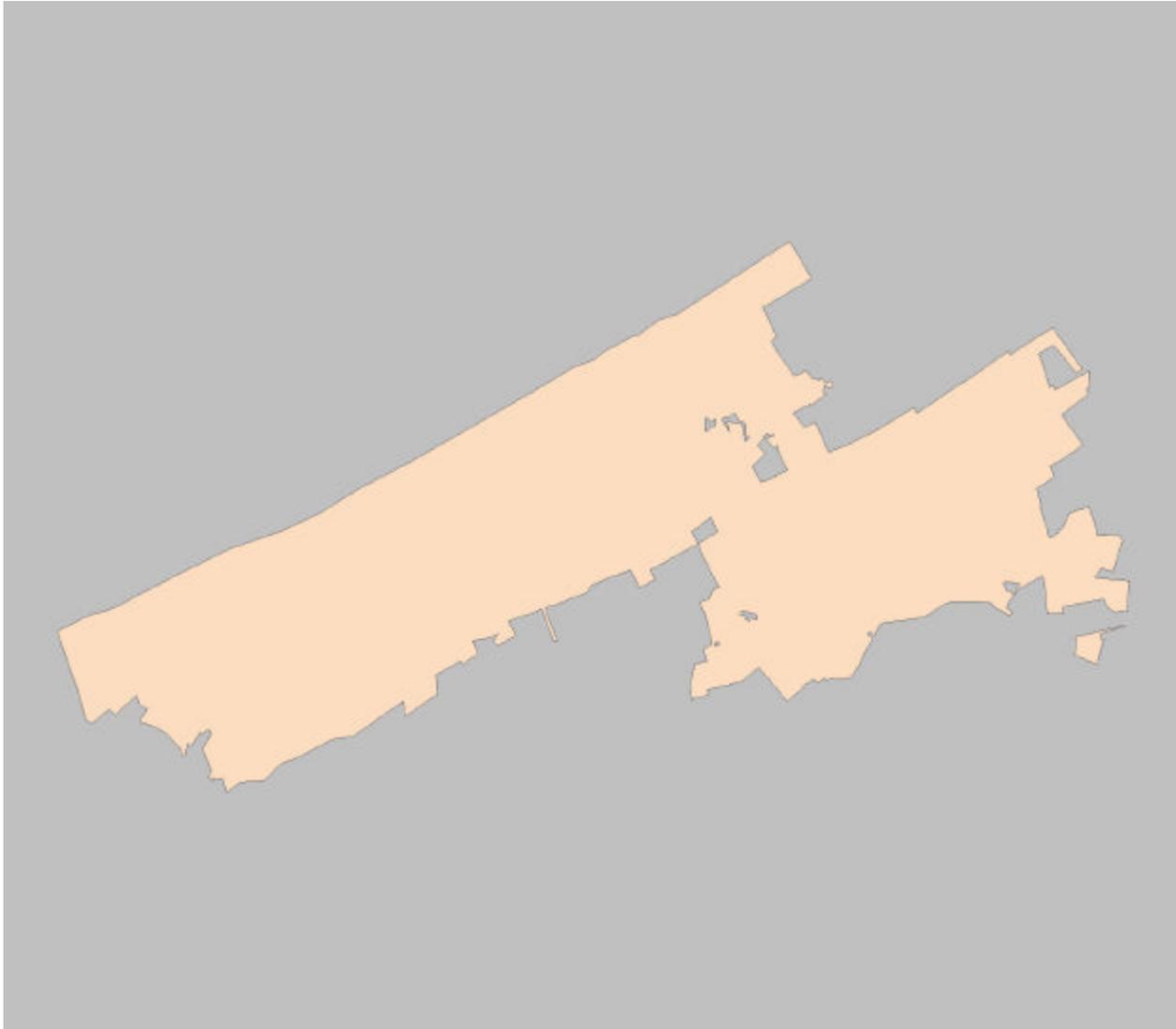


Accident Potential Zones



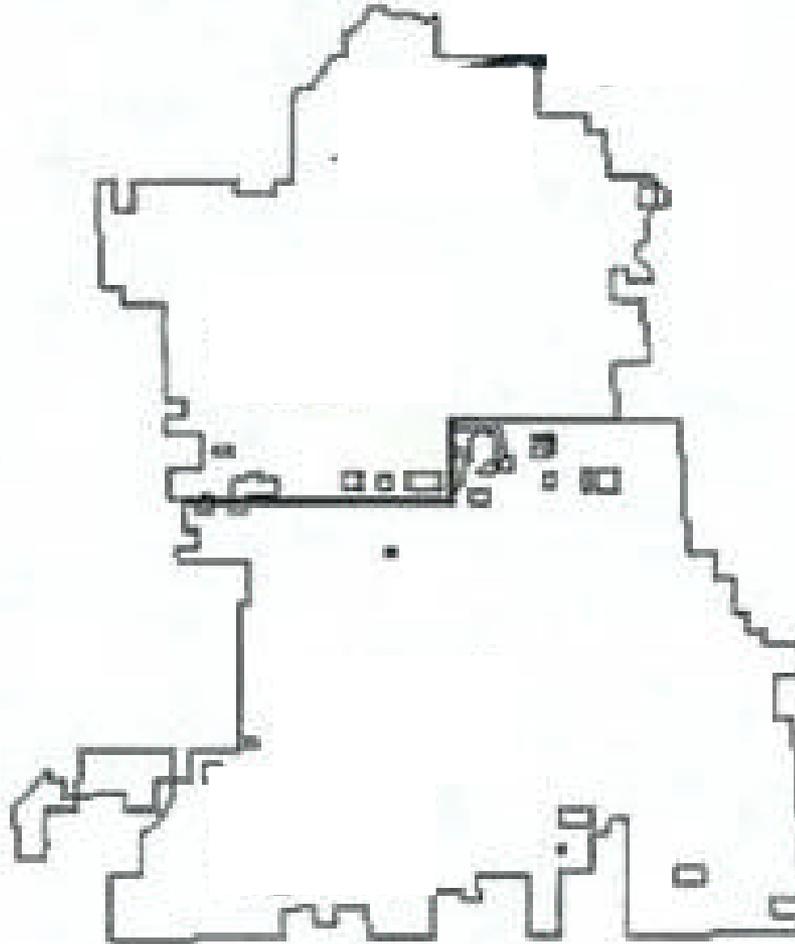


Installation Boundary



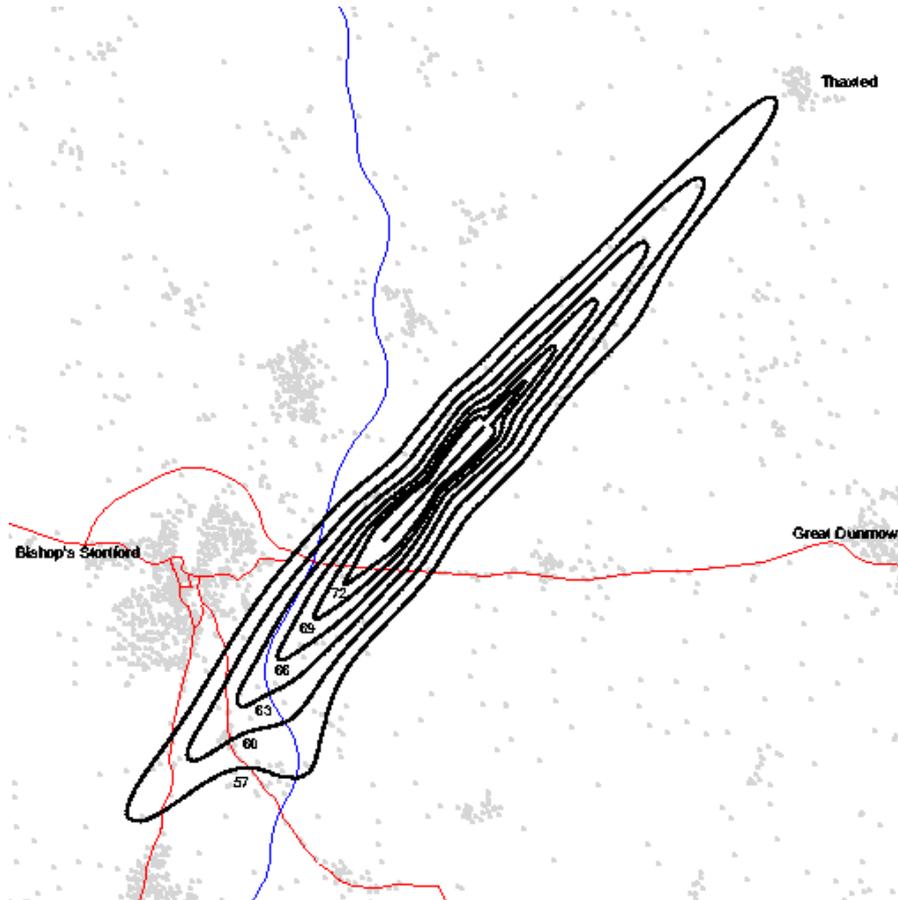


Range Complex



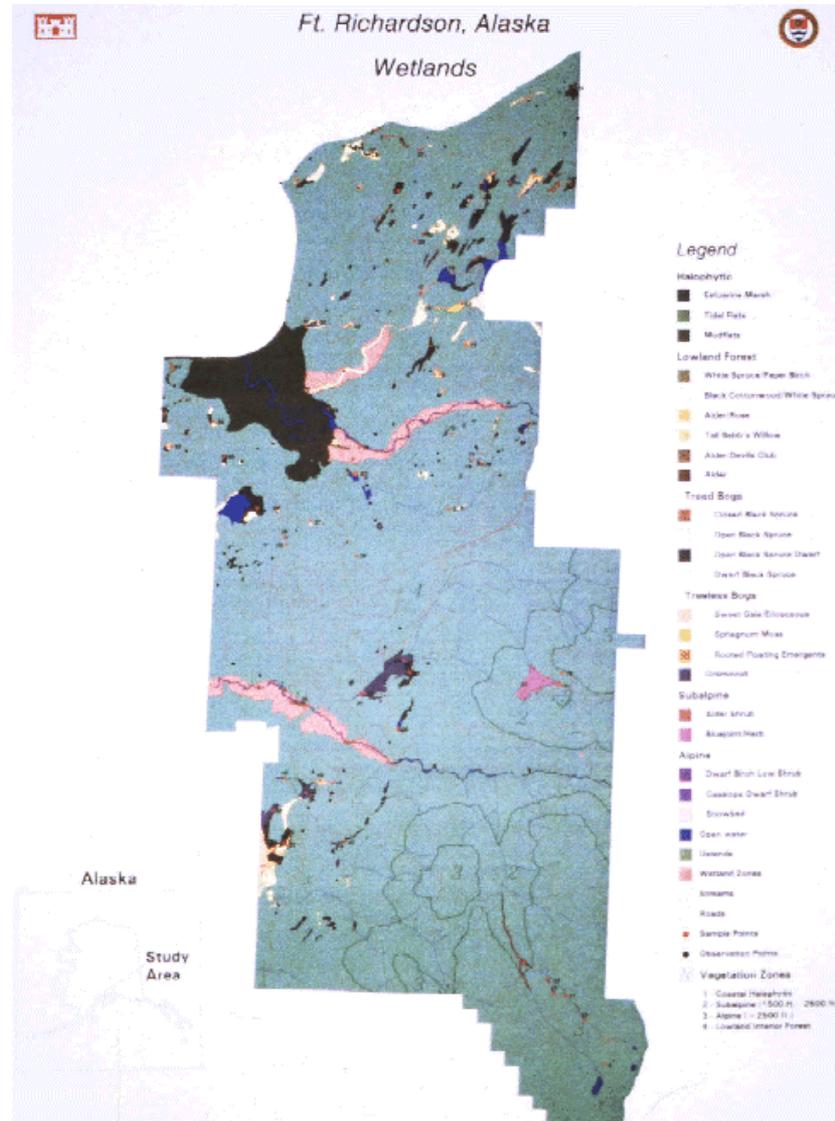


Noise Contours





Wetlands



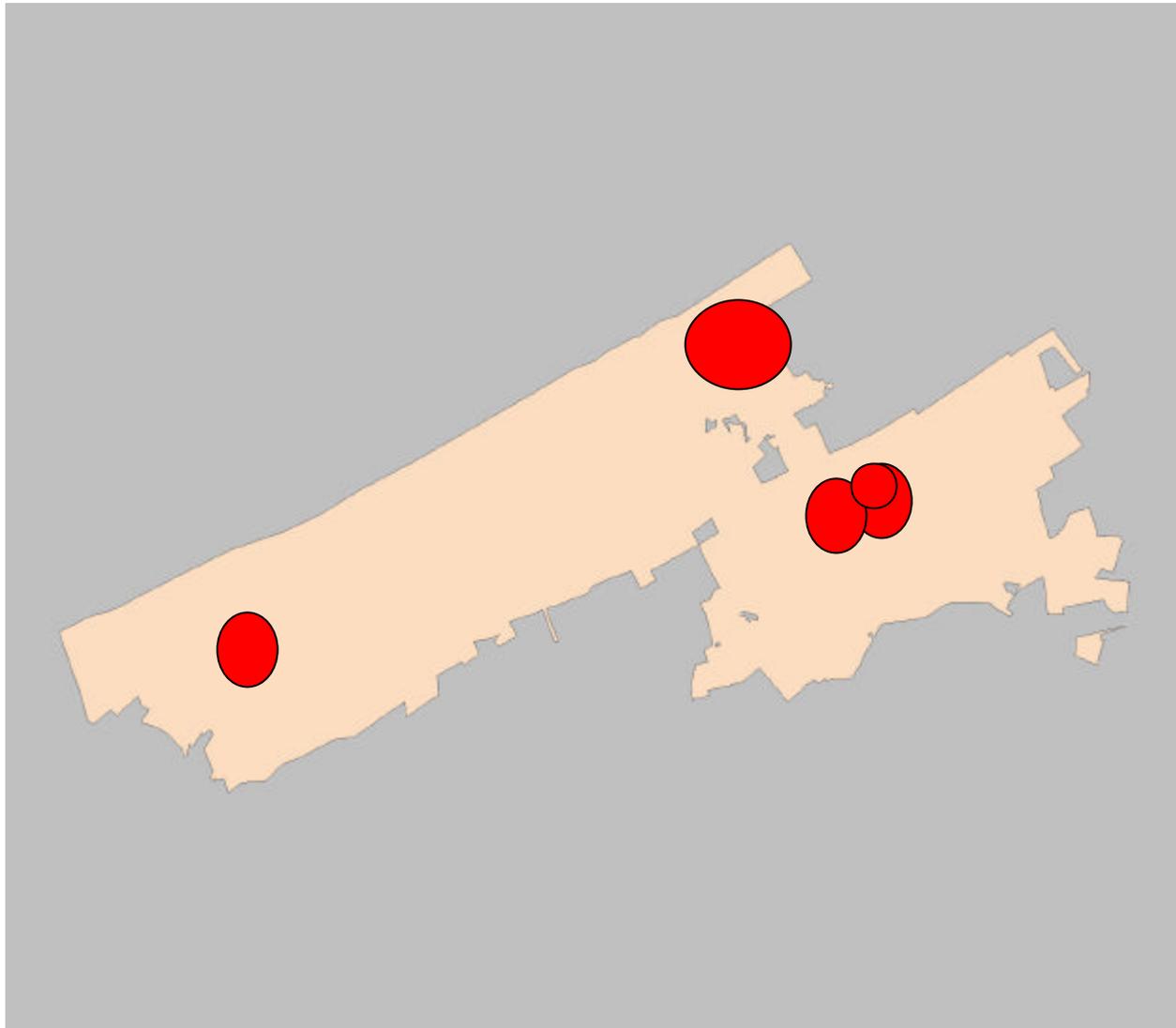


100 Year Floodplain





ESQD Arcs





1m Imagery





5m Imagery





Army IVT Implementation

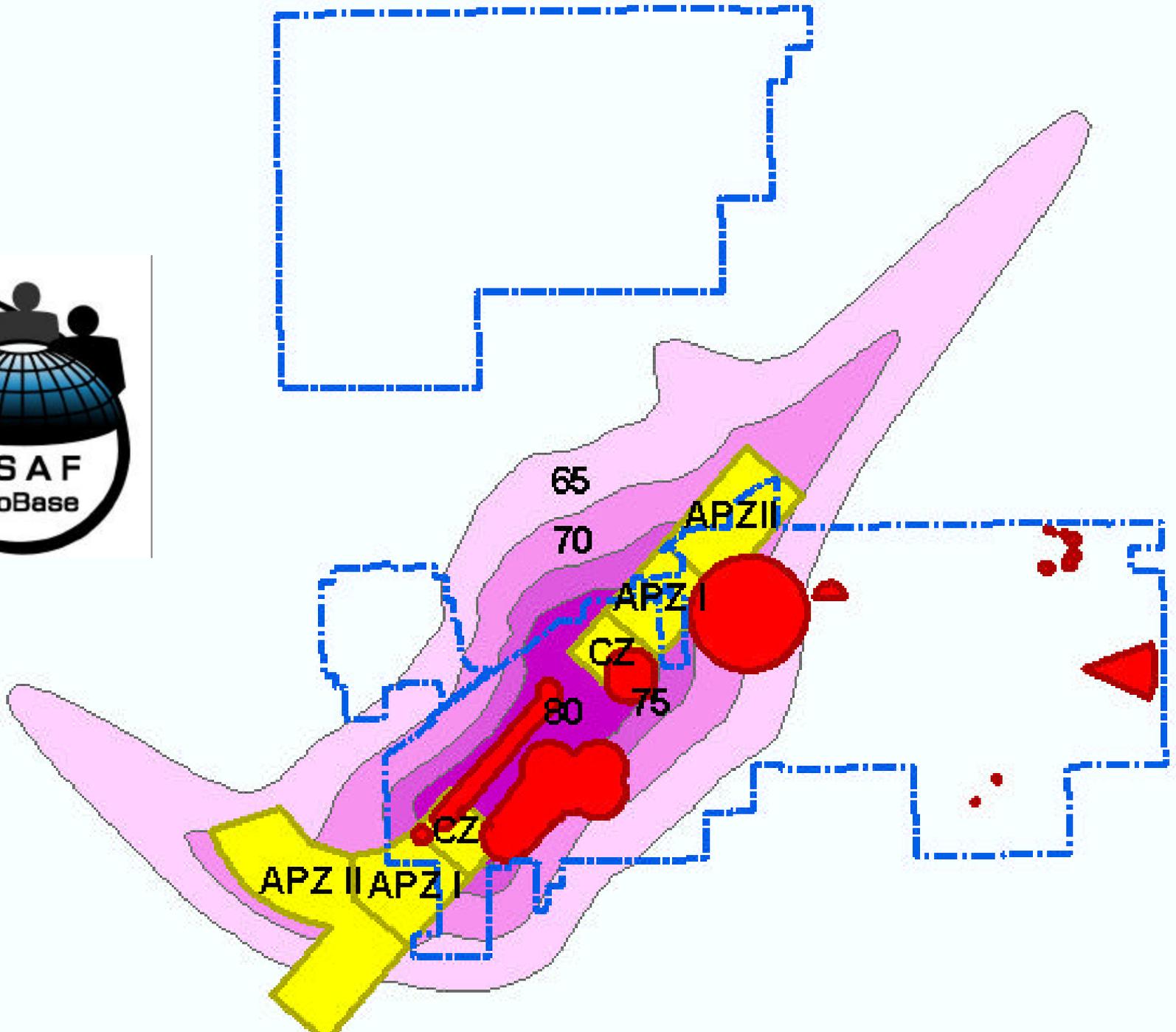
- 7 contracted employees
- GIS Manager to LTC Fleming
- 1 year contract
- Data will be loaded on server at I&A

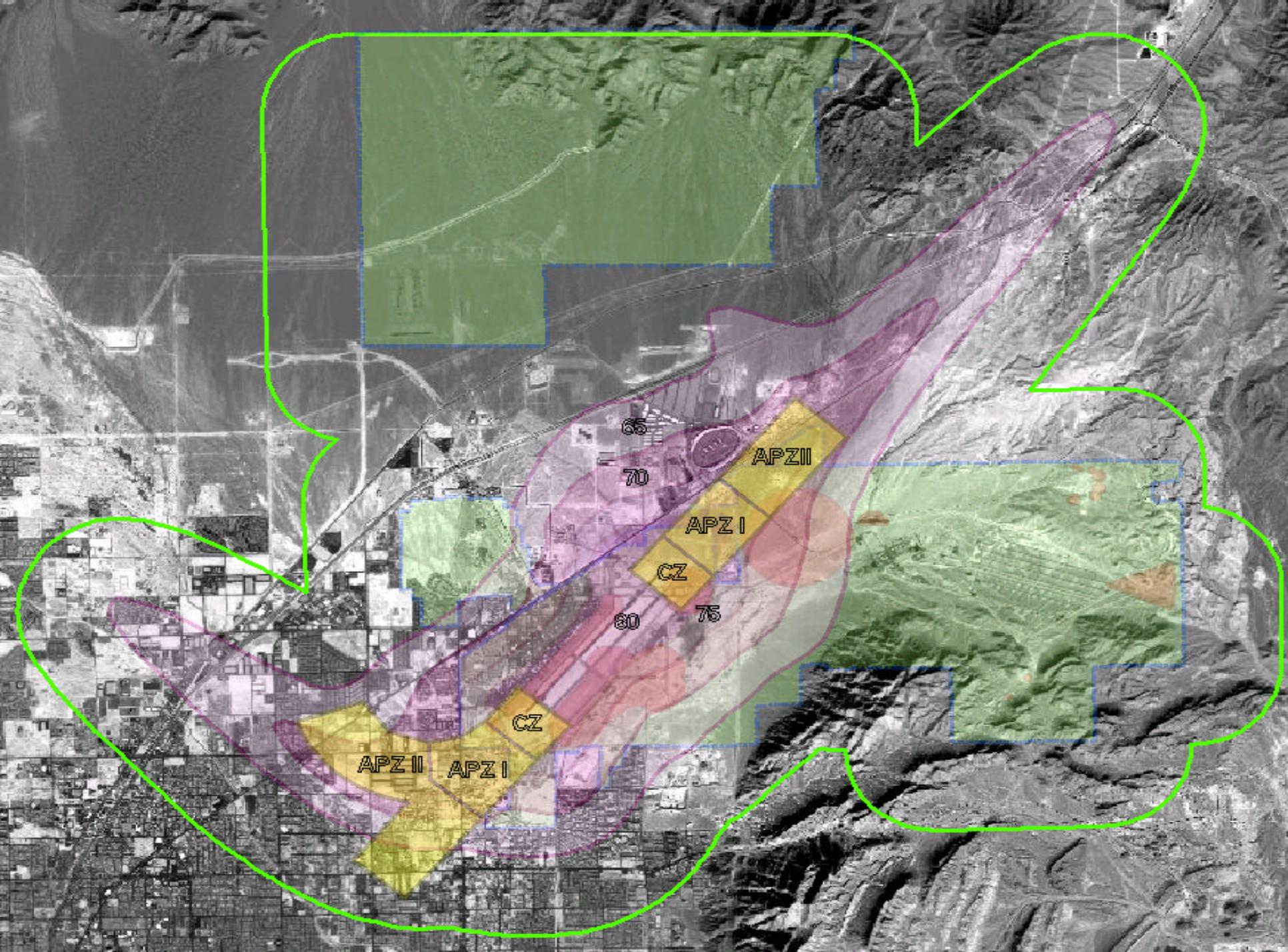


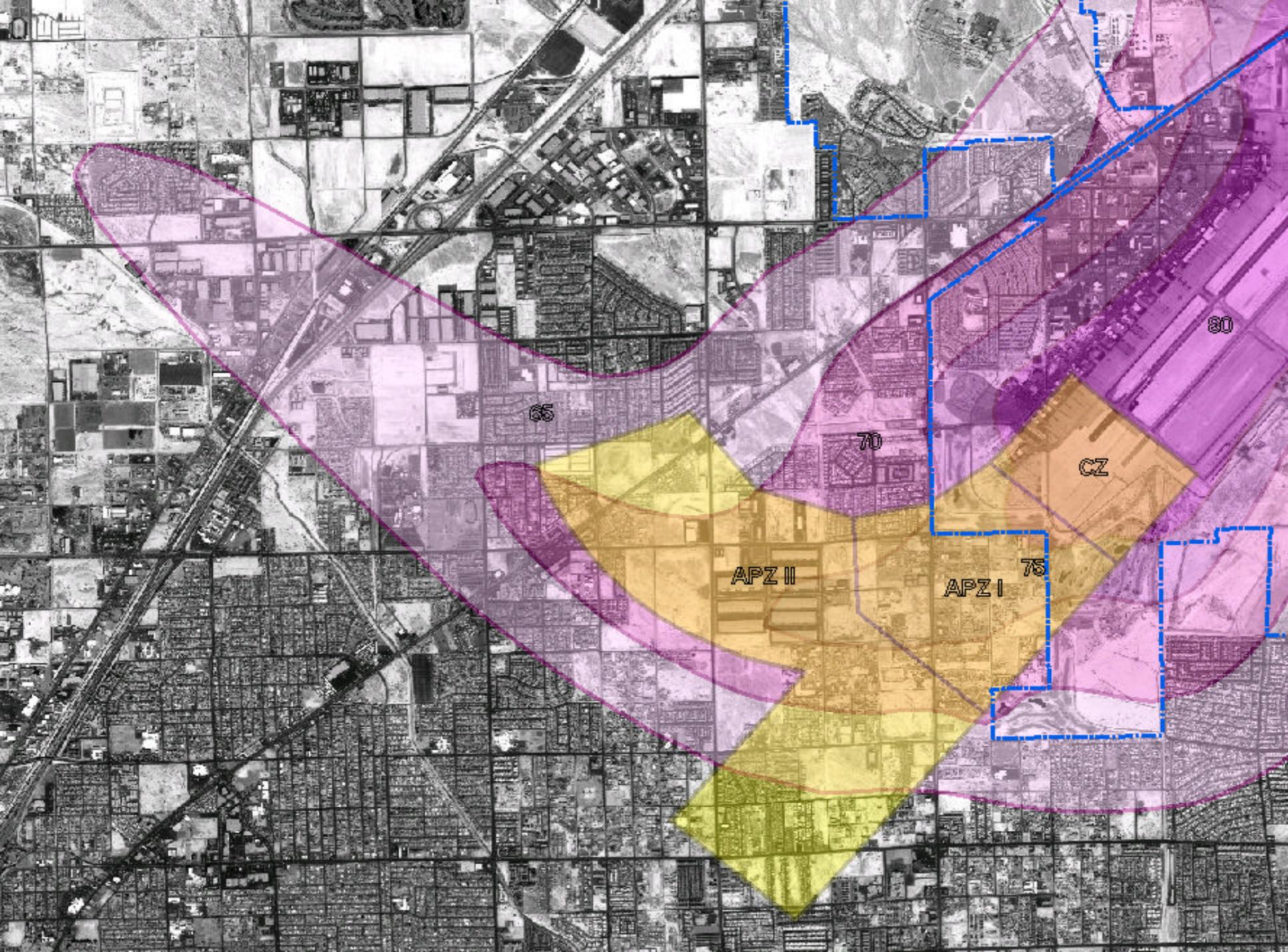
IVT v1.0

‘Constrained’ Features

- Effort Focuses on Organizing Existing Legacy Data
 - Timeline Cannot Support New Primary Data Collection
- Situational Awareness is the Initial Goal
 - *Capabilities* Constrained by Apr 04 Delivery Date
 - *Resolution* Constrained by Security Concerns
 - *Imagery Sources* Constrained by Normalized View Requirement
- Information Architecture Mandates
 - Spatial Data Standards (SDSFIE) Compliance
 - FGDC Content Metadata Compliance
 - Rigorous Spatial Data Quality Assurance Procedures
- Working with Auditors
 - Certify process of data collection
- Standard products across Services







65

70

80

APZ II

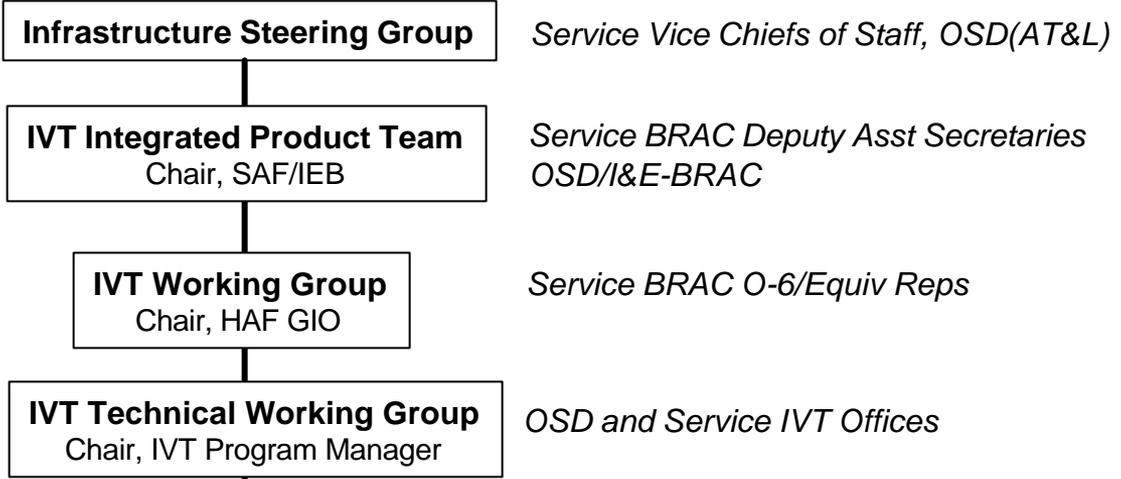
APZ I

75

CZ



IVT Governance (Pending)



**Army IVT Office
(GIS-R)**

**IMA Northeast Region
IMA Southeast Region
IMA Northwest Region
IMA Southwest Region
IMA Pacific Region**

**Navy IVT Office
(GeoReadiness)**

**HQ NAVFAC
Info Technology Center
EFD-Atlantic
EFA-Northeast
EFA-Chesapeake
EFD-Southern
EFA-Southeast
EFD-Southwest
EFA-Northwest
EFD-Pacific**

**OSD IVT Office
(Co-located with HAF GIO)**

Program Manager and Staff

**Air Force IVT Office
(Strategic GeoBase)**

**Air Combat Command
Air Mobility Command
Air Force Reserve
Pacific Air Forces
Air National Guard
Air Force Space Command
Air Force Materiel Command
Air Education and Training Command
Air Force Special Operations Command
USAF Academy
11th Wing**

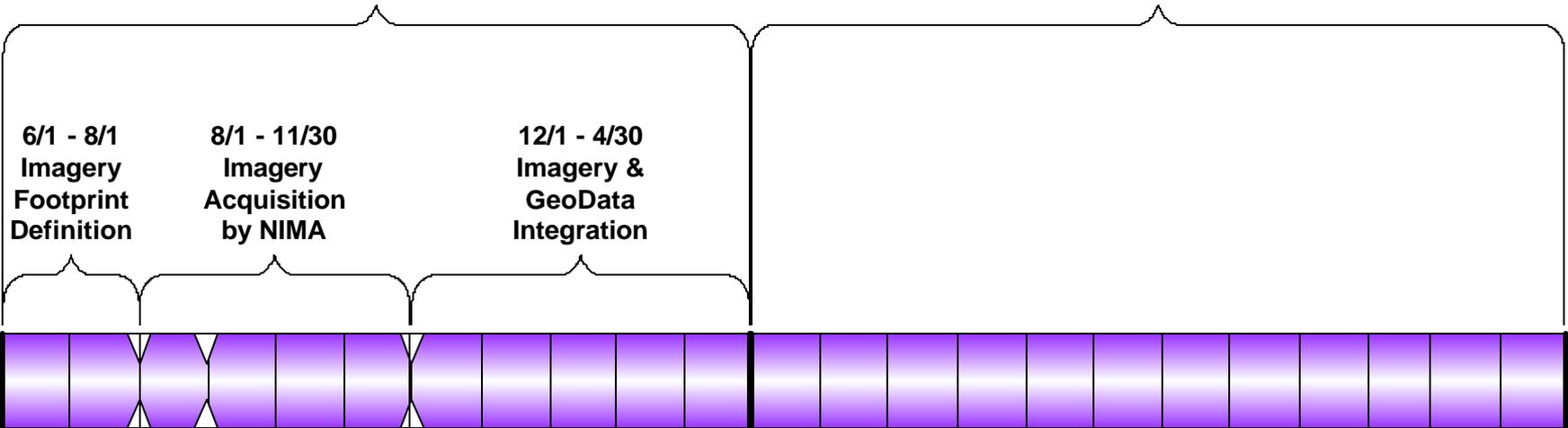
**Marine Corps IVT Office
Navy Annex**



IVT v1.0 Schedule (Pending)

6/1/03 - 4/30/04
**Imagery & GeoData
Collection**

5/1/04 - 4/30/05
**IVT Employment
For BRAC**



Jun 2003 Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr Apr 2005

8/1
**Imagery Order
Submission to NIMA**

8/31
**IVT Quality Assurance
Plan Complete**

12/1
**Vendor Imagery
Delivery Deadline**

Begin Post Spiral 1 Implementation



Summary

- IVT is visualization tool
- Not used to determine which installations are realigned or closed
- Intended to provide first look at expansion capacity



Questions?