



### **GBDAA** Research Objectives

- Implement a Ground Based Detect and Avoid (GBDAA) system that will have long term strategic value to NASA, FAA, and industry partners
- Develop ground based sensor models to support NASA and Industry simulations
- Gather relevant ground based sensor data with live aircraft to inform the RTCA SC-228 DAA Phase 2 Minimal Operating Performance Standards (MOPS)



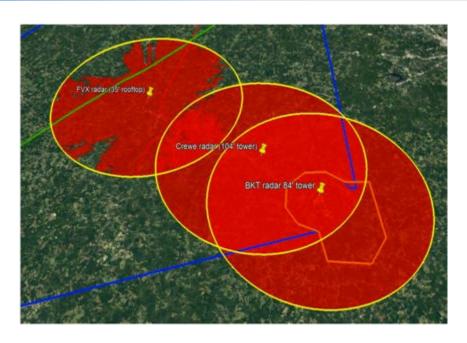
#### **New York UAS Test Site**

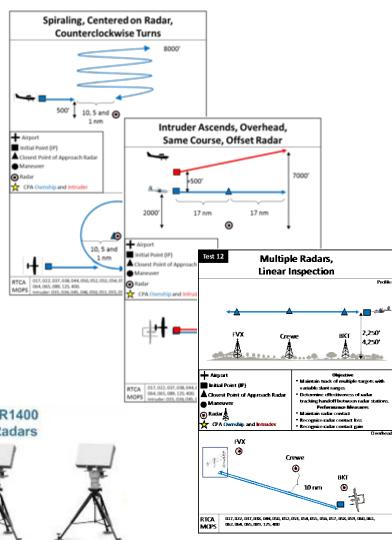




## **Ground Based Detect and Avoid Testing**









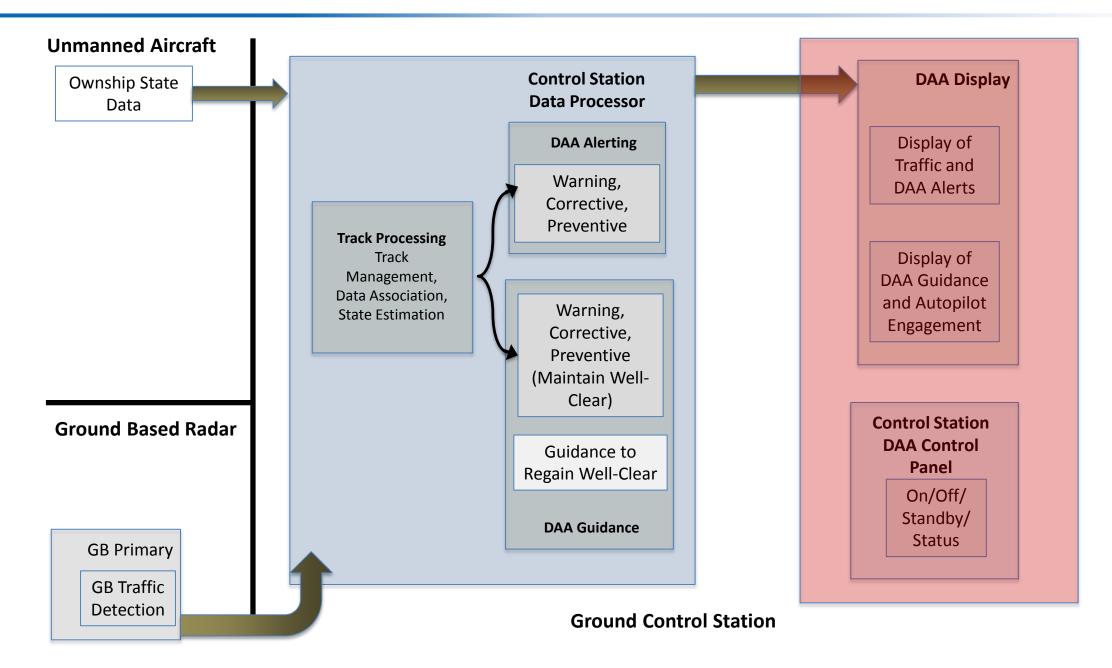








### **GBDAA** Architecture





# Airborne/Ground Interoperability Testing

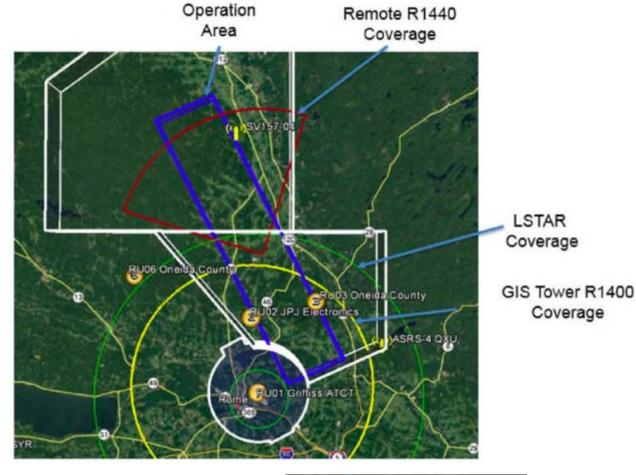










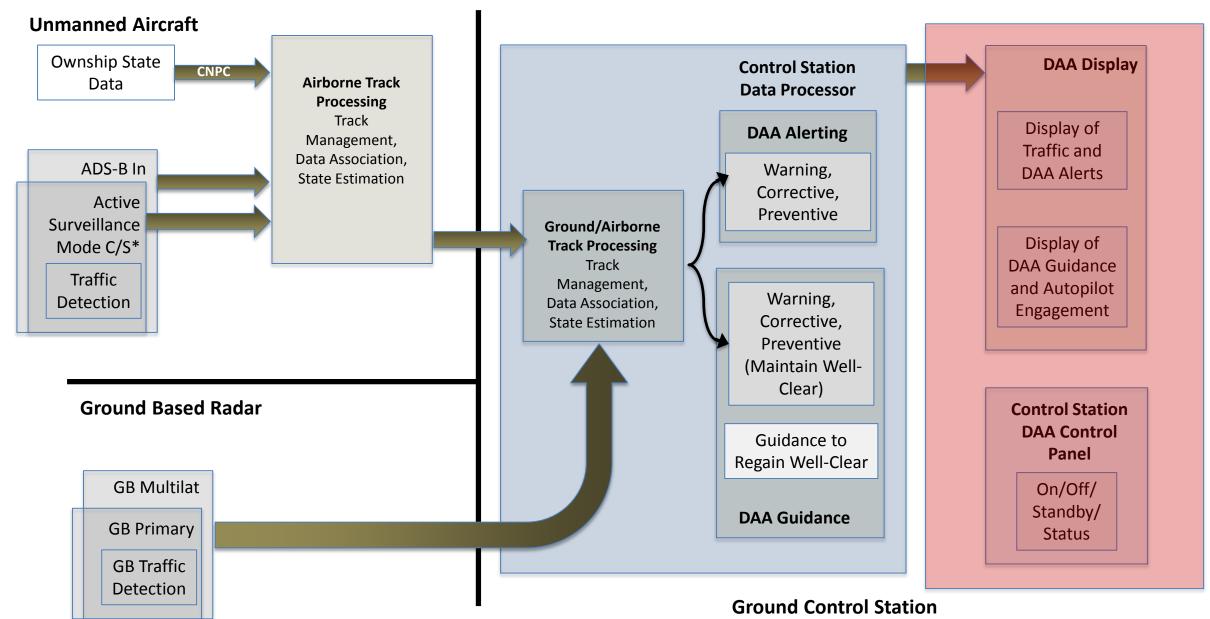








# Airborne/Ground Interoperability Architecture





## Data Collection Flights and Deliverables





#### New York UAS Test Site







- GBDAA Radar Characterization and System Implementation
  - Flights: July September
  - Sensor Model: September
  - Final Report: September

- Airborne/Ground Interoperability
  - Flights: May June
  - Data Analysis Results: September
  - Final Report: September