

**ART** 

# Areté Radar Tracker



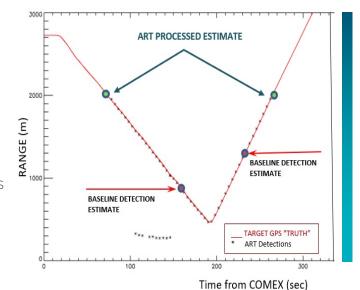
ART is a radar processing framework that leverages ARETE's decades of low signal / high clutter processing to provide enhanced capabilities to today's emerging micro-radar platforms. Designed for mission scalability (CUAS/Border Security/ATR), ART can be tailored to specific radar and platform environments to optimize overall system performance.

### **Key Features**

- · Runs on low SWaP (Size, Weight and Power) processing platforms (NUC)
- · Real-time track-before-detect processing
- · Significantly increased Range-to-Detect
- · Improved performance near Zero Doppler (Slow Movers and Zero Range-rate UAS)
- · Improved performance against Low RCS targets
- Continuous "sweeping" provides uniform persistent surveillance across the FOV

## **Key Applications**

- · Drone Surveillance (Including Hovering Assets)
- · Cued Target Tracking
- · Multi-Sensor Tracking





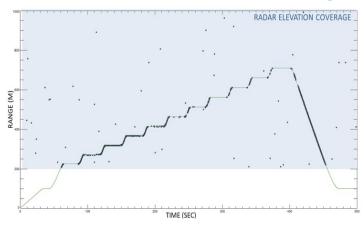


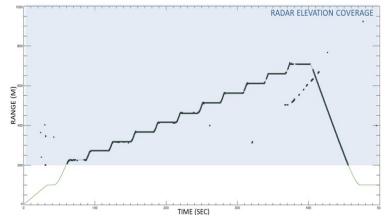


### **HOVER RUN**

### Standard Radar Processing

### Areté ART Radar Processing





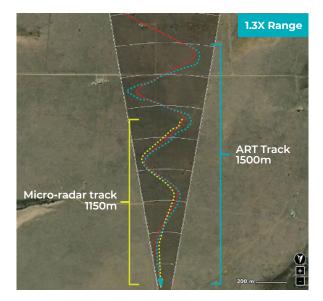
# ART Track 1500m Micro-radar track 650m

### **Extended Range Inbound Drone**

DJI Phantom IV GPS Track (truth)

----- ART Track

Baseline Micro-Radar Track



### **Extended Range "S" Turns**

····· DJI Phantom IV GPS Track (truth)

ART Track

··· Baseline Micro-Radar Track



