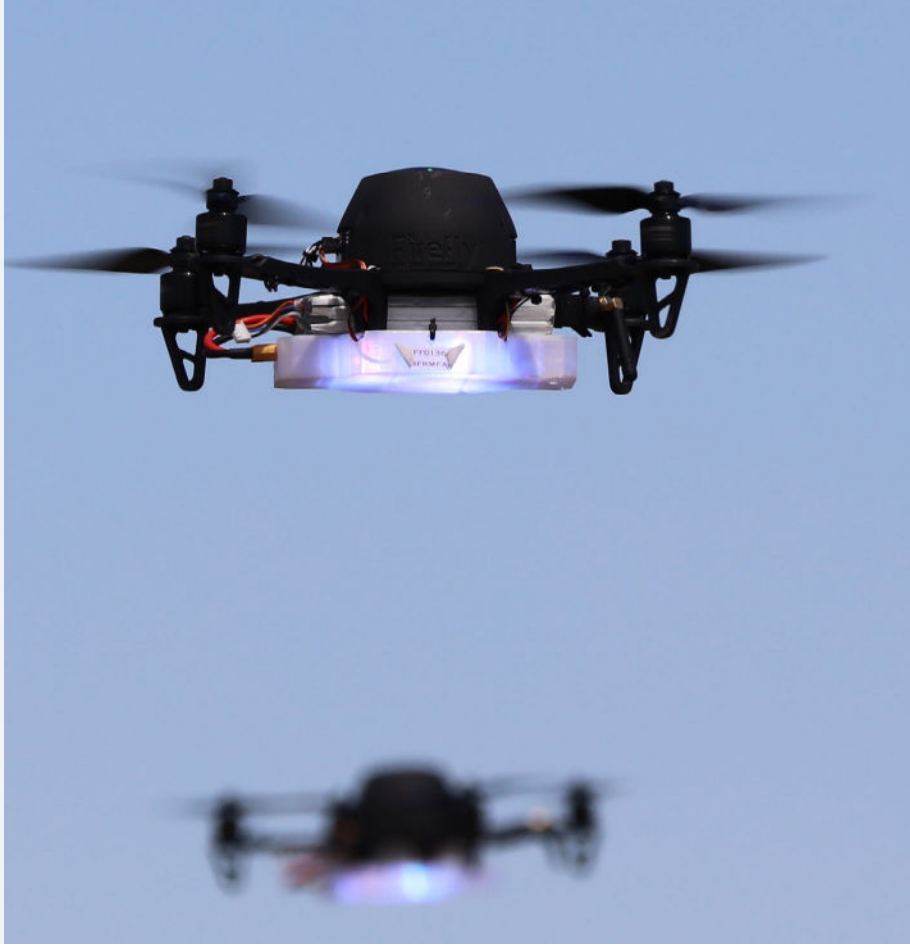
ART

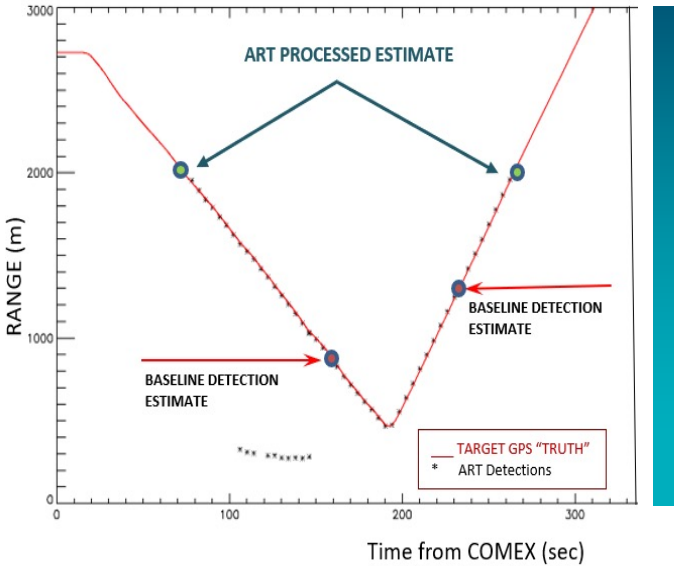
Areté Radar Tracker



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

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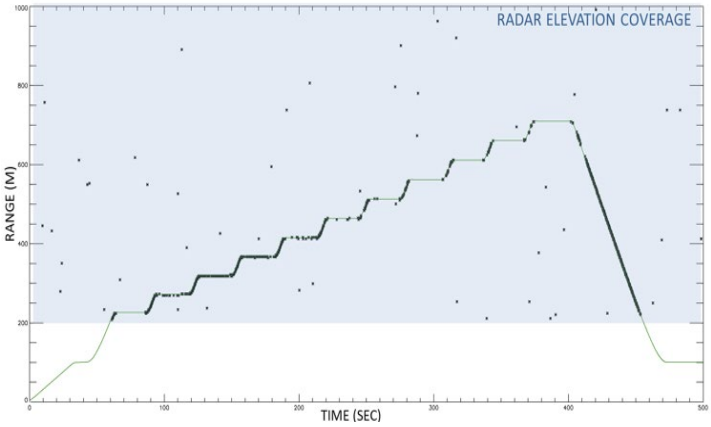
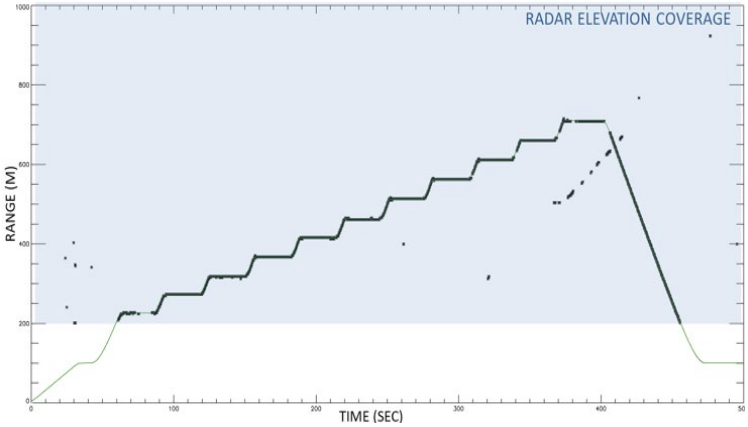
HOVER RUN

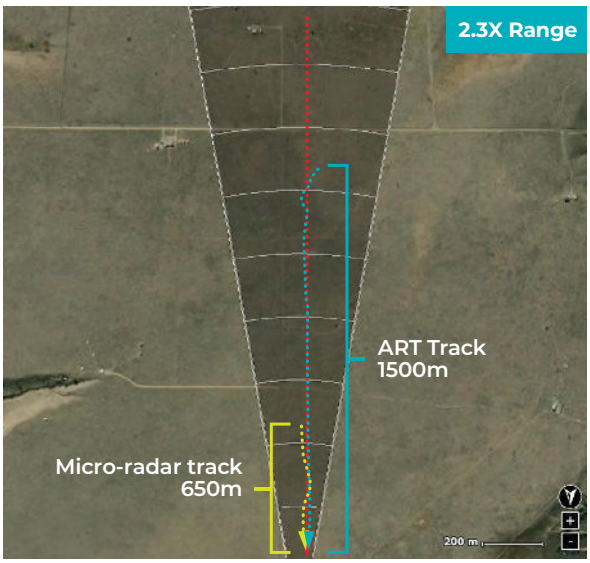
Standard Radar Processing



Areté ART Radar Processing

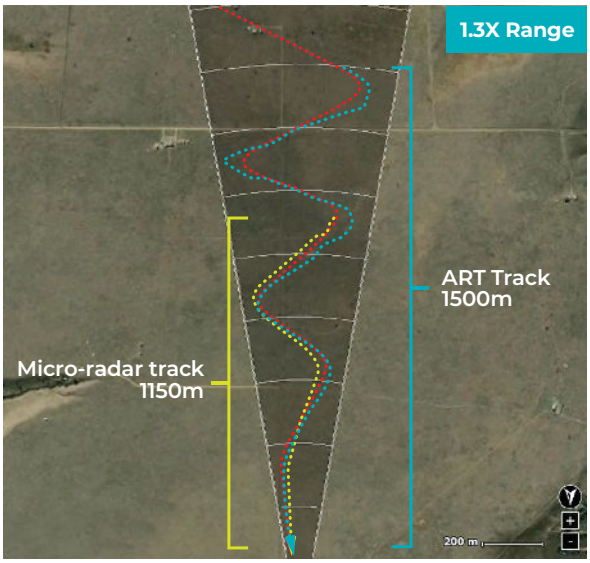


Extended Range Inbound Drone



- DJI Phantom IV GPS Track (truth)
- ART Track
- Baseline Micro-Radar Track

Extended Range “S” Turns



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