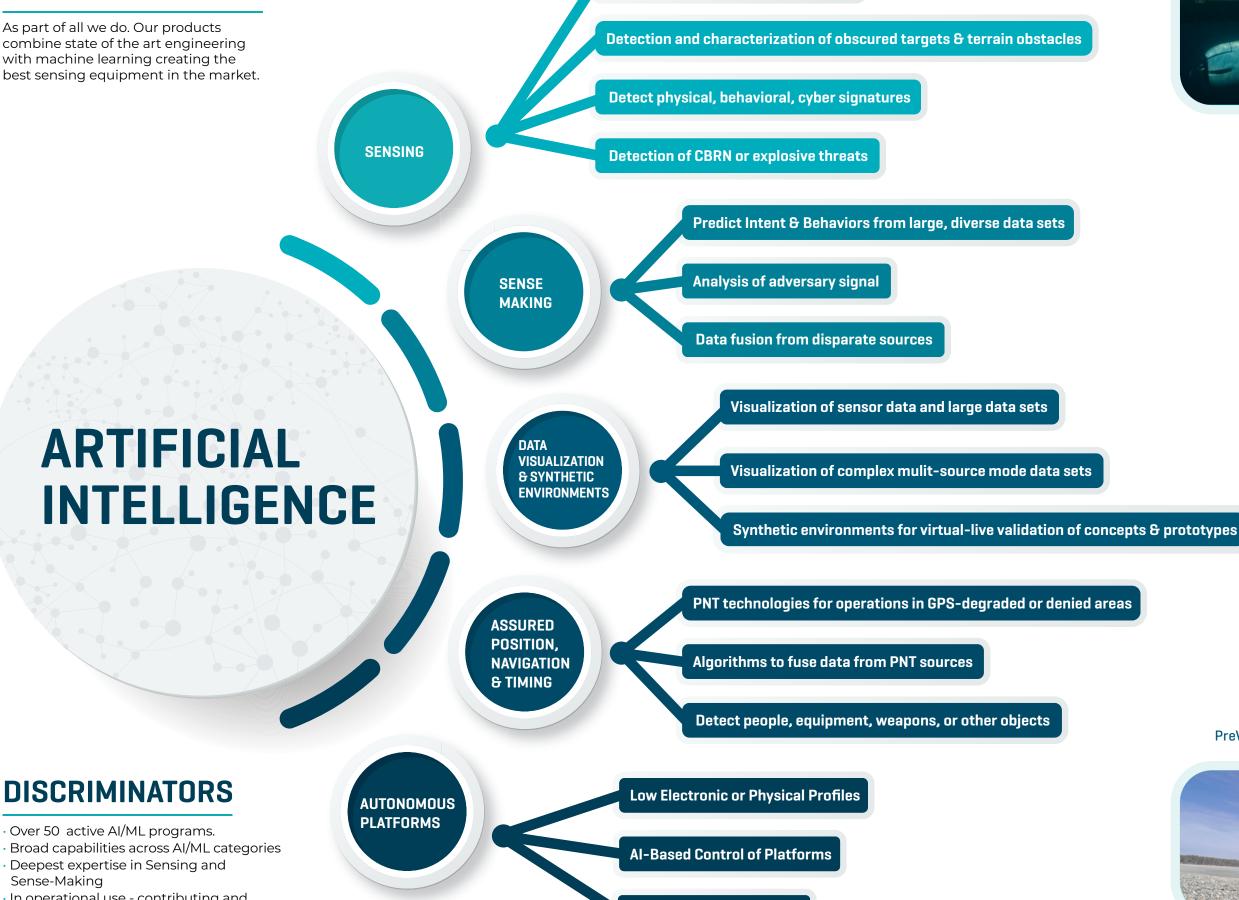
AI/ML CAPABILITIES

Areté is an advanced science and engineering Employee-Owned Small Business that provides innovative sensing solutions — from scientific discovery through prototyping to production. Areté's smart systems include active and passive sensors, real-time processing, software, and complex algorithms that operate from seafloor to space.





As part of all we do. Our products combine state of the art engineering with machine learning creating the best sensing equipment in the market.

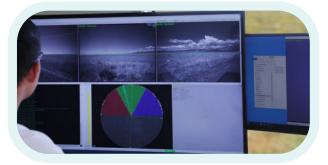


Explainable and robust Al

· In operational use - contributing and learning every day across domains



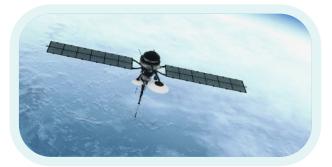
VCM - Video Automated Target Recognition Module



Basilisk - Passive Automated CUAS Sensing



TANDOM - Smart Multi-Sensor Fusion



PreVAIL - Automated Target Recognition and Prediction



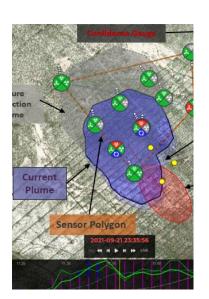
AIMS - Automated Image-based Monitoring System for Triage



AIMS – Automated Image-based Monitoring System

• **TRL:** 7

- **Production:** Prototyping, integrated into Ascent's Spirit Drone.
- **Discriminators:** Real-time, remote triage, documents injuries from point-of-injury to point-of-care.
- SWaP: Software packages on a chip, integrated into any camera UAV, UAS, fixed site.
- Status: SBIR Phase III with U.S. Army TATRC.
- **Description:** Integrated software employing a Deep Neural Network and Computer Vision to remotely locate, characterize, and monitor combat casualties.



TANDOM – Sensor Fusion

- **TRL:** 9
- Production: Full Rate.
- Discriminators: Sensor Agnostic, Real-Time multi-int sensor fusion for CWMD and Environmental threat mission spaces via standard I/O protocols.
- **SWaP:** TANDOM operates on a range of platforms from low swap processors to cloud installations.
- Status: Currently deployed on nine OCONUS locations.
- **Description:** TANDOM is a real-time, tactical software toolkit for enhancing actionable decision making. Providing inputagnostic processing, TANDOM captures inputs from sensors, video, and environmental feeds and converts them to context-based information streams.



LiSA – LIDAR for Situational Awareness

- **TRL:** 9
- · Discriminators: Low Size, Weight & Power, long range (2Km).
- SWaP: 10"x 29.5"x 12", 30lbs, 250W max, normal operation 120W.
- Status: Full Rate production, capable of higher rate.
- **Operations:** Currently deployed to Europe on MEDEVAC UH-60s and SOCOM MH-47s and MH-60 Blackhawks.
- **Description:** LiSA is a state-of-the-art LIDAR delivering unparalleled levels of real-time situational awareness, especially in Degraded Visual Environments. LiSA also provides wire-strike/obstacle avoidance, and Landing Zone Assessments, reducing pilot cognitive burden and improving safety in all phases of flight.



