



ATHENA AI

PRODUCTS

Athena AI Vision – An advanced computer vision decision support tool developed specifically for the targeting cycle, to speed up sensor to effector links. The 3 core functions are Aided Target Recognition, Slew to Cue and Geolocalisation. Key benefits of Athena AI Vision are:

- Faster and more effective sensor to effector cycles
- Improved compliance to LOAC and ROE
- Reduced cognitive load on operators
- Real-time, improved situational awareness for commanders

Athena AI Geospatial – An automated terrain analysis and mission planning tool for RASAI enabled call signs at the battlegroup level and below. Athena AI Geo enables map, satellite, and geospatial data to be quickly analysed, determining key terrain, optimal asset placement, mobility corridors, cover and concealment and manoeuvre routes. The routes can apply to ground-based forces or waypoints for an unmanned asset. Four key benefits of the TAK compatible Athena Geo AI for Defence are:

- Improved mission planning
- Improved battlespace awareness and asset allocation
- Enhanced robotic tasking and autonomy
- AI augmented battlespace management

CAPABILITIES

Athena AI aims to improve Defence combat capability by driving sensor to effector efficiencies and creating decision superiority, all whilst mitigating risk to the mission. Athena achieves this by leveraging Artificial Intelligence to automate the data to intelligence process to enable more robust, accelerated tactical decision making. Athena's core capabilities include:

State of the Art AI. Athena creates bespoke and sophisticated AI neural networks to analyse data saturated battlespaces, revealing critical information rapidly and autonomously to commanders.

Trusted Military Decision Support. Through industry and academic collaboration, Athena has developed ethical AI-on-the-loop decision support that enhances and reinforces Command, Control and Communications, Robotics and Autonomous Systems, and Joint Fires.

Agnostic Integration. Athena AI can easily integrate our AI networks with different platforms, optics (EO, IR, Hyperspectral), edge compute devices, network nodes, and various battle management applications to create AI augmented systems of the future today.



DISCRIMINATORS

Athena AI's core capabilities differ from our competitors in that Athena incorporates synthetic training, hierarchical architectures, and multispectral networks. Athena also includes the Australian Defence Force's ethical AI pragmatic tools, consideration for lethality systems, and performs quantization aware training or synthetic dataset generation.

To date Athena is unaware of an AI company which has established the level of trust in their networks with its full data assurance framework as well as forward planning for Article 36 reviews to support sensor to shooter links.

KEY CUSTOMERS

- US DoD
- Australian DoD
- Defence Science and Technology Group (DSTG) – Weapons Division
- Hoverfly
- Teal Drones (Red Cat Holdings)
- Dutch MoD

KEY PARTNERSHIPS

- Tomahawk Robotics Inc
- International Weapons Review
- American Rheinmetall Vehicle
- Royal Australian Air Force Jericho Evaluations
- Anywise
- Arkeus
- Mission Systems
- Skyborne Technologies

QUALITY ACCREDITATIONS AND AWARDS

Independent reviews of Athena AI conducted by DSTG Human Factors and Deakin University A212.

CONTACT DETAILS

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ATHENA AI

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