



Presented To:

Greater Northwest New Mexico Manufacturing Extension Partnership Manufacturing Day 2023

October 10,2023

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Who We Are

Emerging Technology Ventures Inc. (ETV) designs, builds, deploys, and supports:

• Autonomous platforms (Air, Ground, Maritime) with:

o Multimodal sensing

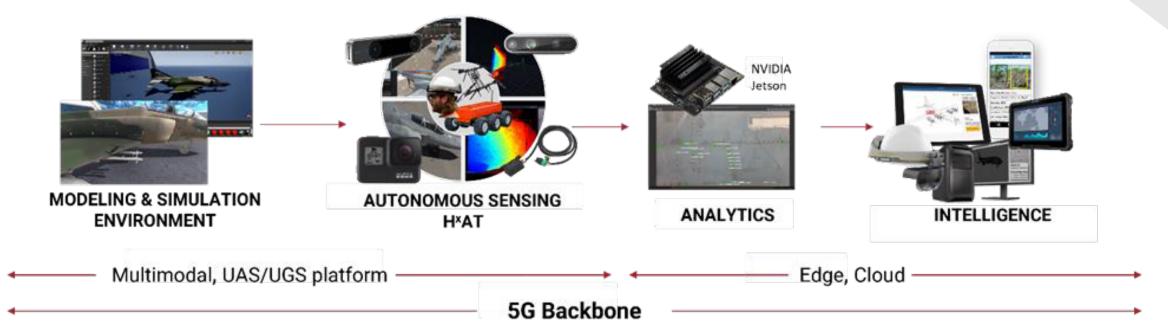
- o Real time AI-driven edge analytics
- o Human-Robot teaming for inspection and maintenance in complex environments
- Building user trust in AI solutions is critical for KeenAI[®] and ETV
- Workforce development is key for ETV's company growth, especially in a rural area where we operate
 - o The NMEDD Job Training Incentive Program has been essential for our staff development



UAS Flight Testing at the Alamogordo, NM Airport



KeenAl[®] is an agile, extensible architecture that autonomously senses, understands, decides, and acts to deliver actionable intelligence in complex environments. KeenAl[®] is built for the future of the Global Analytics of Things.





Market Segments







KeenAl[®]'s Market Segments include Precision Agriculture, Critical infrastructure Inspection, Aircraft Inspection, Renewable Energy, and Defense.

KeenAl[®]'s creation and development were aided by two contract awards:

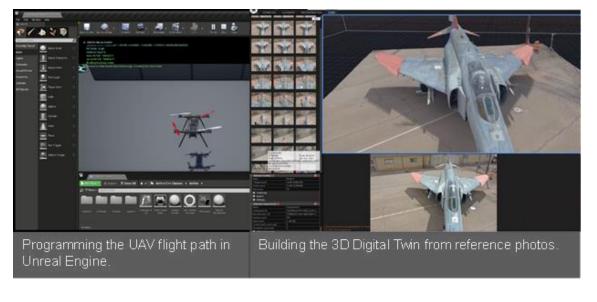
- 2020's US Navy Phase I Small Business Innovation Research (SBIR) Accelerated Delivery and Acquisition of Prototype Technologies (ADAPT) titled "Autonomous Inspection, Damage Classification, and Repair Support System for Expeditionary Naval Aviation Maintenance," and
- 2021 and 2022's NASA Phase II Small Business Technology Transfer (STTR) titled "Digital Twin Data Acquisition System for Institutional Facility Management."

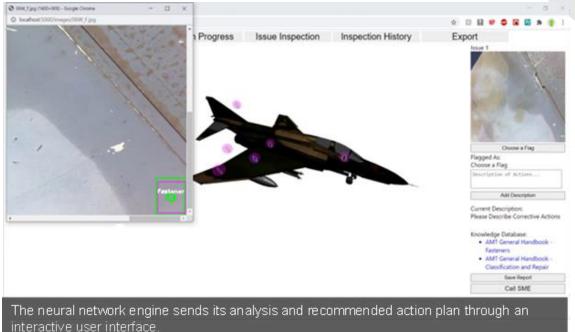


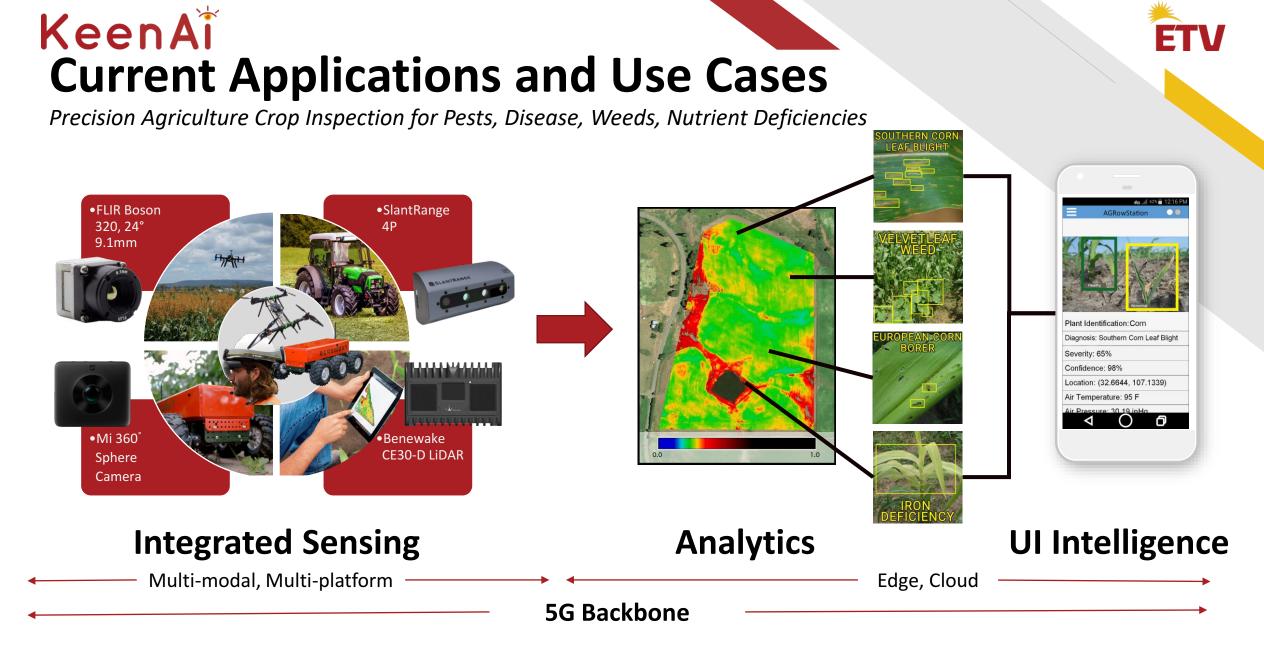


Our Value Proposition

KeenAl[®]'s patent-pending technology addresses the Data Rich Information Poor (DRIP) issue prevalent among users faced with mountains of data. Its architectural framework cues and drives response mechanisms through multimodal sensing and fusion, a neural network engine for analysis and decision, and user workflow integration.





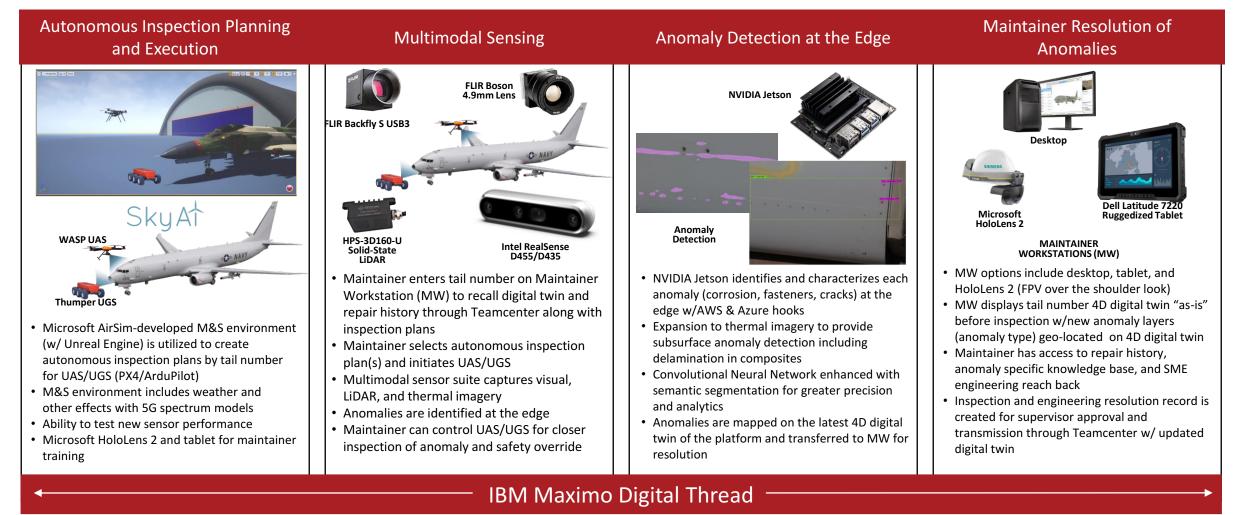


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Current Applications and Use Cases

Aircraft Inspection, Damage Classification, and Repair Support System <u>Navy SBIR Phase I (complete) & Phase II (submitted)</u>







KeenAi Current Applications and Use Cases

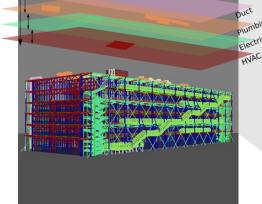
4D Digital Twin Data Acquisition System For Institutional Facility Management NASA STTR Phase I (complete) & Phase II (ongoing)

View more layers as necessary

- In response to NASA's digital transformation goals for model-based solutions in the area of "Digital Twin" Institutional Management and Health/Automated Decision Support of Agency Facilities.
 - Solution supports localized and distributed management of NASA's terrestrial facility constellation providing near real-time status of the facility environment for predictive conditionbased maintenance.
 - Feasibility assessment included adaptation for application in multiple environments including space facilities.



Completed IBM's AI Mentorship program; current <u>IBM Partner with</u> <u>Embedded Solutions Agreement</u> with focus on IBM Maximo integration (NASA deployed solution) and Trusted AI standards and processes.



Operational Concept

- 4D view of area of interest w/change detection
- Consolidated system view w/layered subsystem view
 AI models built on interrelationships between layers
 Compute at the edge w/cloud reachback to evolve models



KeenAi

Thank You!

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