



ATLAS: The Spatial Intelligence Platform

GridRaster transforms industrial manufacturing, training and sustainment using AI.

WHAT WE DO

ATLAS provides a spatial intelligence platform for rapid digital twin creation, real-time metadata, precise spatial mapping, object localization, and advanced visualization for the Digital Thread.



Key Use Cases

- ✓ Manufacturing & Assembly
- ✓ Maintenance and Operations
- ✓ Robotics & Automation
- ✓ Training & Simulations



Digital Twin Creation

Generate high-fidelity 3D models 10x faster with real-time metadata

Rapidly scan and create 3D digital twins with data fusion, unlocking the potential of real-time metadata and immersive experiences.

- Accelerated XR model creation
- No need for exotic scanning equipment
- Accurate model representation
- Metadata Integration for enhanced operational insights



SCAN



AUTO STITCH & SEGMENT



EXPERIENCE

Key Benefits:



Fast and Cost Effective:

Create 3D content 10x faster at 1/10th the cost using affordable commercial devices



Ease of use:

Easy three step process - Scan, Auto-segment and Use, enabling real-time 3D immersive experiences



High Accuracy:

Create 3D models with both geometric accuracy and rich metadata for use in simulation, defect detection, and analysis.



Digital Twin
Creation

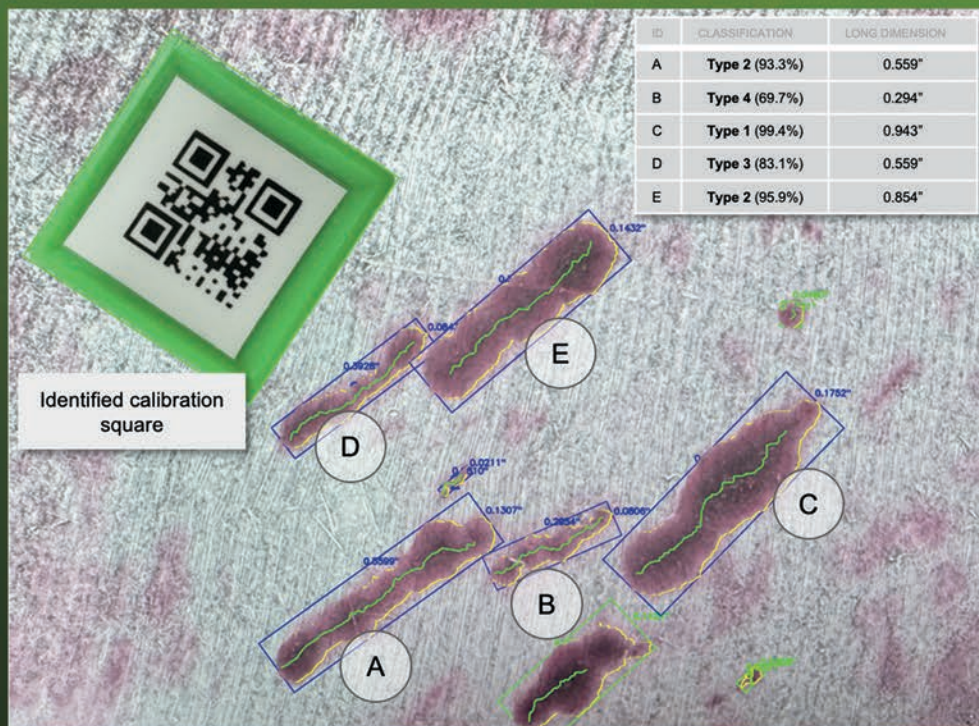




Inspection & Maintenance

Enhance speed and accuracy of inspection & maintenance workflows

Leverage the power of AI to detect, identify, measure, and classify defects and anomalies for expedited inspections workflows and eliminate human error.



Automated Inspections

Detect improper installations, damage, defects and anomalies



Active Task Guidance

Provide real-time, step-by-step instruction for expedited workflow completion



Instant Classification

Leverage AI to rapidly identify, measure and categorize anomalies and defects

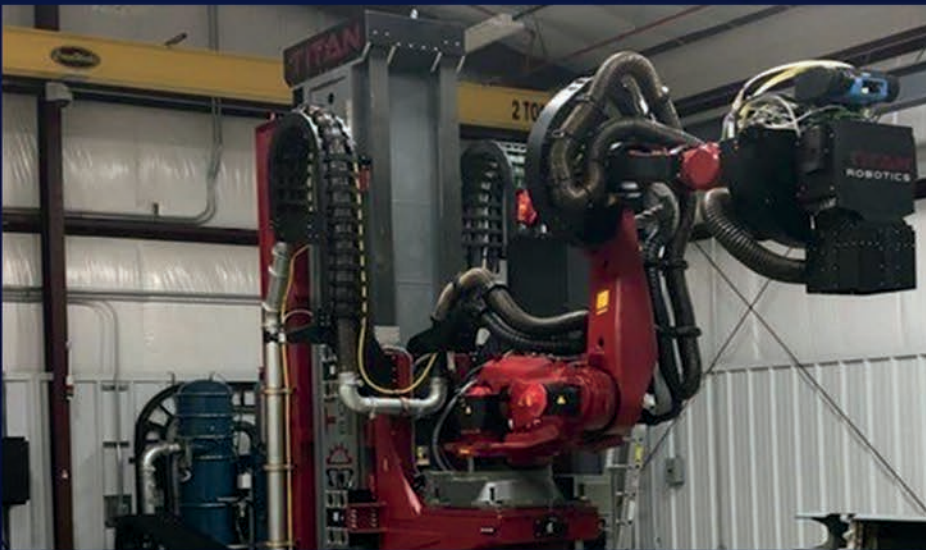




Automation & Robotics

Optimize robotic operations with AI-driven spatial intelligence

ATLAS enables fast 3D mapping, segmentation, markerless localization, and intelligent robotic path planning for automated industrial processes.



Key Benefits:



AI-Driven Spatial Mapping

ATLAS creates precise 3D digital twins with COTS devices, supporting real-time object recognition, auto-segmentation, and optimized robotic pathways for scene understanding.



Enhanced Automation

Leverage spatial awareness in harsh environments (like painting and high-speed manufacturing) to automate robotic processes.



Improved Human Machine Collaboration

With advanced spatial awareness, automated systems are better able to work with humans and avoid injuries and improve productivity.



Automation &
Robotics



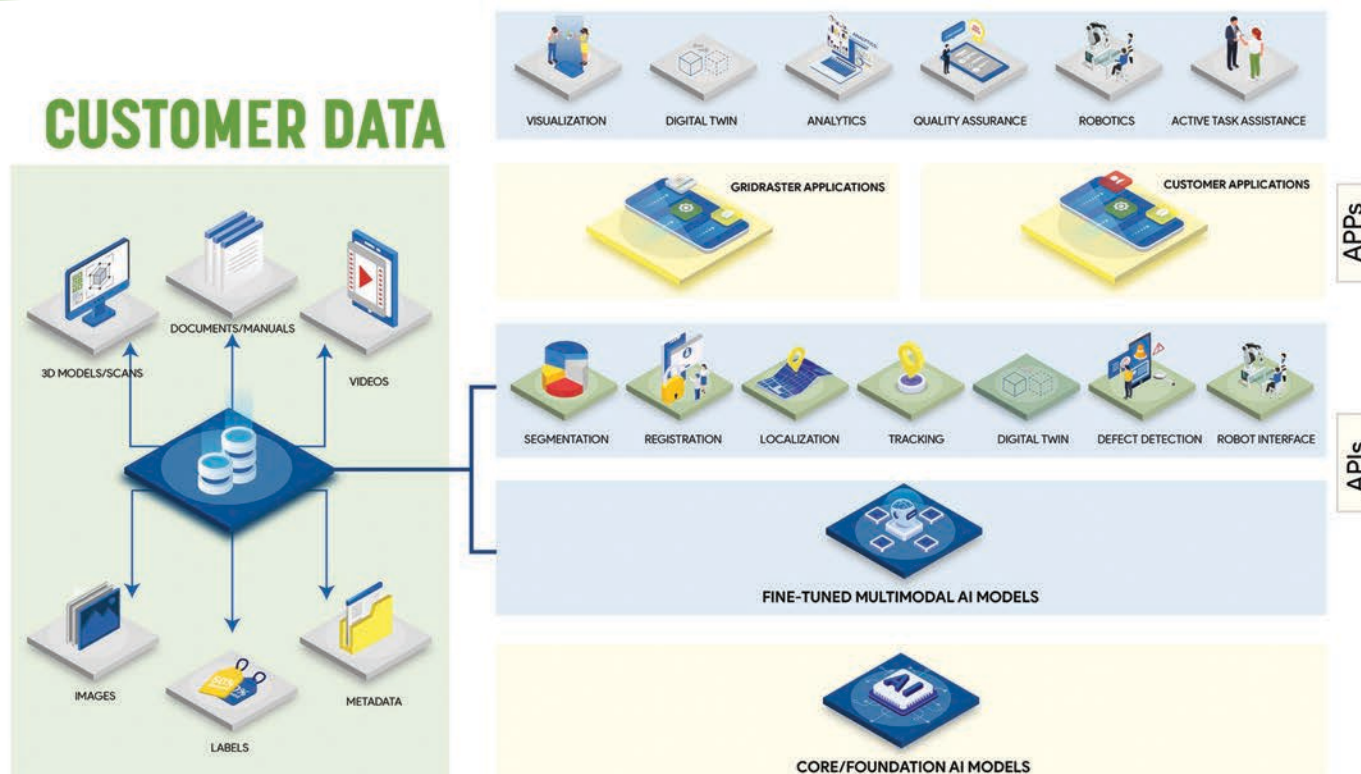


ATLAS: OUR SPATIAL INTELLIGENCE PLATFORM

Re-defining Complex and Dynamic Industrial Workflows using Spatial Intelligence

ATLAS (Automatic Tracking, Localization, and Augmentation System) is GridRaster's next-generation spatial intelligence platform designed to bring precision, automation, and real-time decision-making to complex industrial and defense environments. Built on adaptable AI models and optimized with customer-specific data, ATLAS enables intuitive human-machine collaboration, efficient robotic workflows, and actionable digital twin ecosystems-securely and at scale.

- AI Trained on Your Data (images, videos, 3D scans, etc)
- Multimodal Data Integrate visual, spatial, and textual data
- Modular & API-Driven to integrate with your applications
- Device Agnostic: Vision Pro, HoloLens, iOS, and Android





Industry Awards & Recognition

2024 Defense Manufacturing Technology
Achievement Award (DMTAA)

2024 Strategic Funding Increase (STRATFI
Award) by the US Air Force

Winner of OSD's Organic Industrial Bases (OIB)
Modernization Challenges Award

Advance Robotics for Manufacturing Institute
(ARM) Champion Award

2025 xTech Searchlight 9
(US ARMY) Award



Book a Meeting or
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