

airtonomy

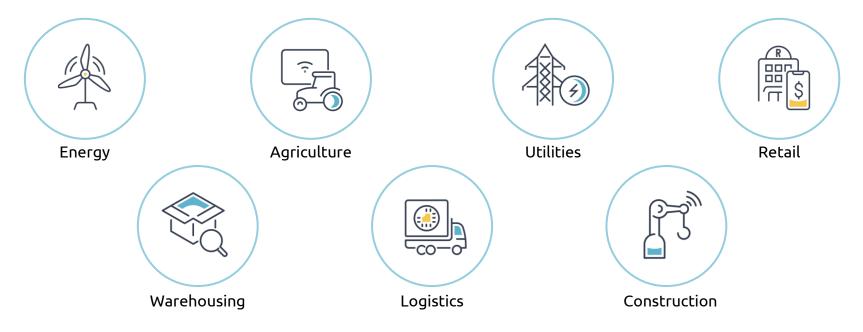
www.airtonomy.ai

January 2021

Opportunity

Critical infrastructure inspections often rely on **unscalable, manual, third party services.**

Drone use is limited by **minimal systems integration and unmanageable data collection**.



Airtonomy's Solution

Scalable, fully autonomous, self-service inspections of critical infrastructure.

Push-button simplicity and end-to-end data management enable enterprise drone adoption.



Flight + Computer Vision



Platform Animation

Airtonomy's Competitive Edge

Category	Company
Wind	Clobotics
Wind	Skyspecs
D&T	eSmart
DSP	DroneBase
DSP	PrecisionHawk
DSP	Measure
Multi-Solution	DroneDeploy
Hardware	Skydio
Hardware	Airobotics
Hardware	Percepto
Hardware	Aerodyne

Competitive solutions for critical infrastructure inspection rely upon a **single purpose, low margin, low availability, professional services model.**

Airtonomy's solution is uniquely positioned to displace competitive solutions with a **multipurpose, high margin, high availability, self-service model.**

Technology

- Integration of hardware, software (IoT), and ML/CV algorithms enables push-button simplicity that minimizes customer overhead.
- Combination of modular, polymorphic actions at lowlevel abstractions (object tracking, obstacle avoidance) maximizes flight routine adaptability across applications.
- Automation of image stitching via Airtonomy's proprietary mosaicking process produces high-fidelity, ML/CV-digestible asset data, even in suboptimal flight conditions.
- Assembly of ML/CV models in interchangeable Docker containers **delivers anomaly detection** based on application or asset parameters (manufacturer, dimensions, components present).



Drones DJI Matrice 300 PX4 Compatibility (Coming Soon)

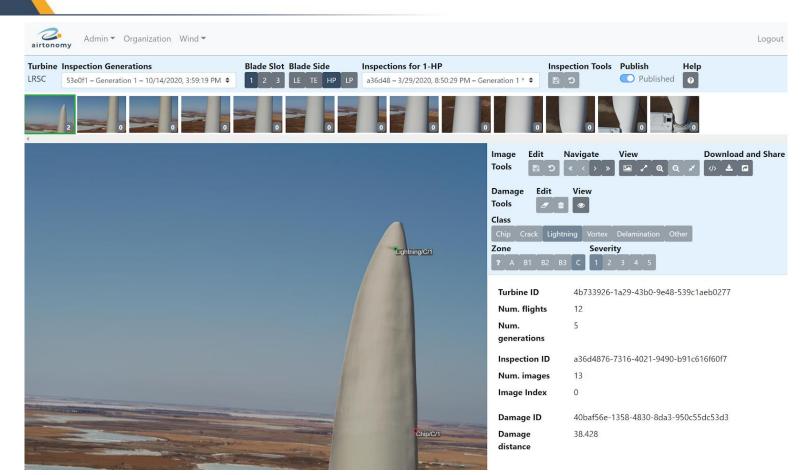
Sensors LiDAR High Resc Thermal Stereosco Compor Custom G LiDAR Mo Onboard

LiDAR High Resolution RGB Thermal Stereoscopic

Components Custom Gimbal Mount LiDAR Mount Onboard Processor Housing

Onboard Processor Nvidia Jetson TX2, Xavier NX Qualcomm QRB5165

Data Workbench (Feedback Loop)

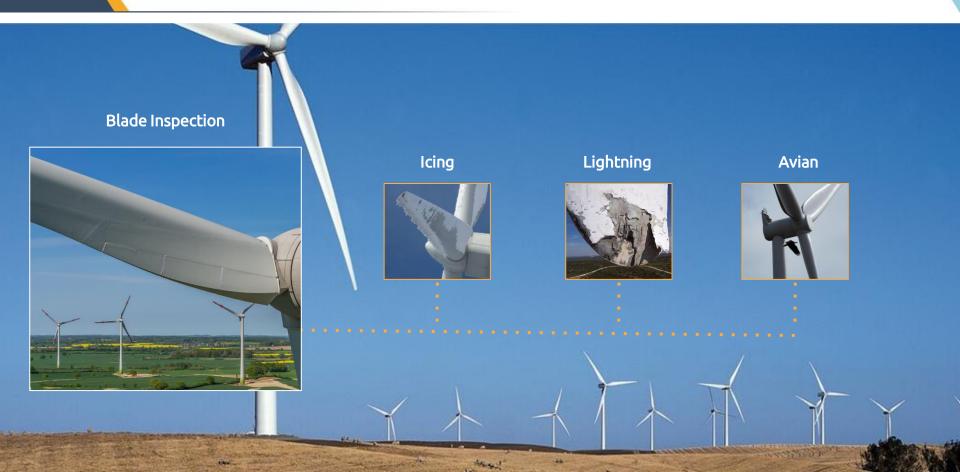




Airtonomy provides a single inspection platform that extends across a variety of sectors.



Wind Applications





Customers **use their own fleet** of off-the-shelf commercial drones, retrofitted with Airtonomy kits.

Airtonomy's solution can be purchased on a **per-inspection basis**, with no obscure pricing or hidden fees.

On-board software can be licensed for use across **multiple sectors and applications.**



Team



Dr. Josh Riedy Co-Founder & CEO Former UND





Nick Zaccardi CTO Former Level 12



Dr. Jim Higgins

Co-Founder & Board Member UND Aviation Department Chair



Dr. Travis Desell Co-Founder & Board Member RIT Tenured Professor



Chuck Pineo Board Member UND Aerospace Foundation

.

.



Dana Sande Board Member UND Aerospace Foundation



Daniel Bingyou Sales Lead Former Microsoft





Luenin Barrios Engineering Lead Former Opto-Knowledge



Barrett Sather Planning Lead Former L3 Harris

.



Beth Davis Product Lead Former Adobe



airtonomy

Learn more: www.airtonomy.ai

Contact us: info@airtonomy.ai