How Municipalities Can Benefit From Leveraging Drone Technology

Presented by:
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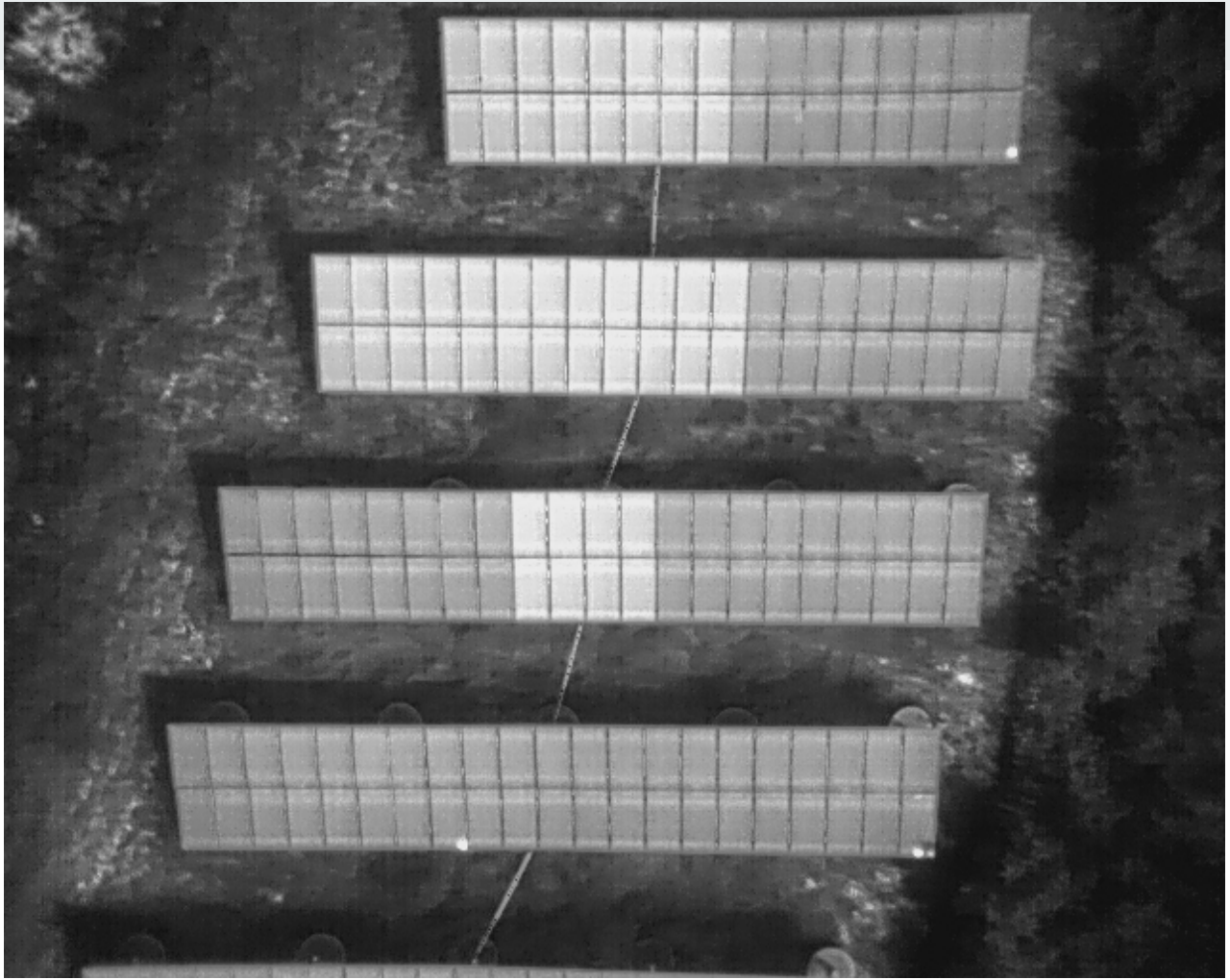
Owner and Founder of Hudson Valley Drones

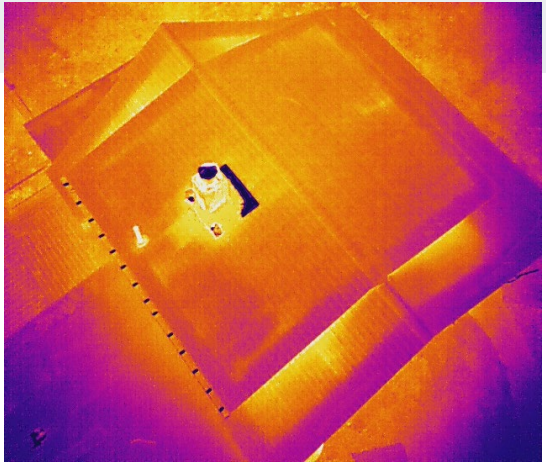
Drones Are Revolutionizing Data Acquisition

- Can be deployed quickly and at a lower cost than traditional manned aircraft.
- Require nearly no infrastructure to take off, operate, and land.
- Require significantly less training than manned aircraft.
- Can operate in areas and at altitudes that manned aircraft cannot.

Tried and True in the Private Sector:

- Aerial Photography and Video for Marketing and Production
- Inspections of Wind Turbines, Solar Panels, Overhead Power Lines
- Precision Mapping for Surveyors and Engineers
- Stockpile Measurements and Construction Progress Monitoring

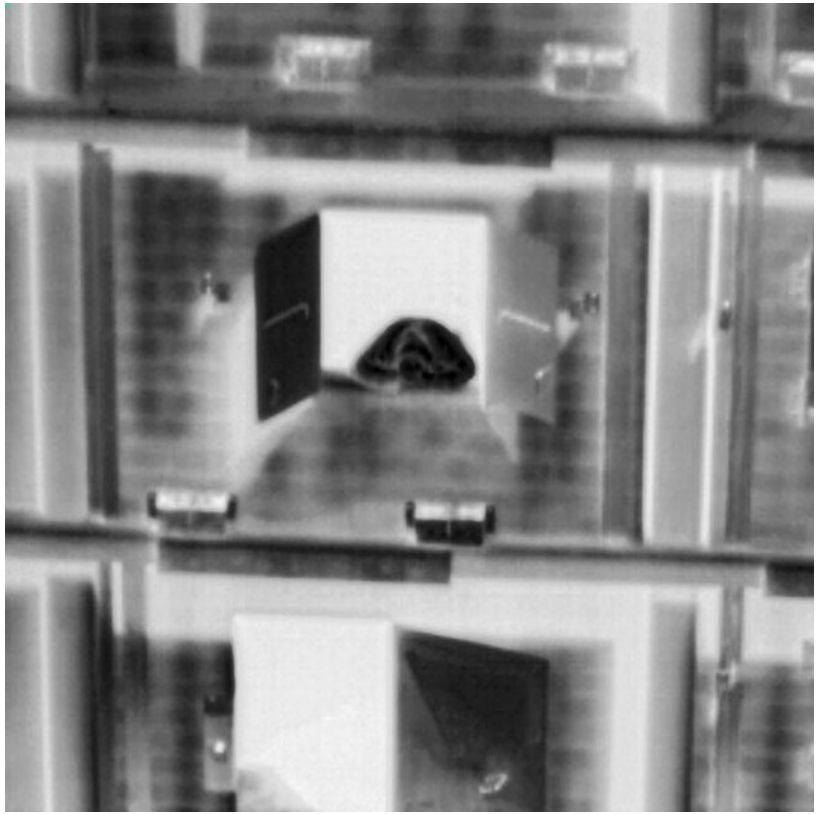


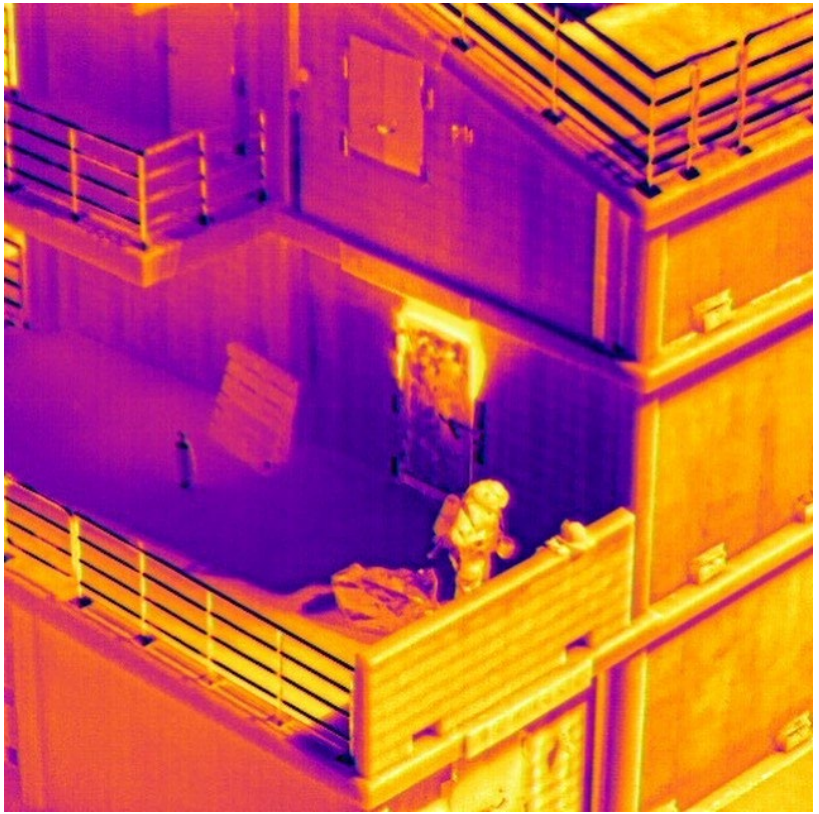


How Can Municipalities Apply This Technology and Benefit?

Emergency Response Tool

- Assist First Responders with gaining situational awareness on an emergency scene.
- Aid in Search and Rescue of lost people.
- Remotely gather information from Hazmat and other dangerous scenes.
- Aid law enforcement with detection and apprehension of suspects.
- Collect information using visual cameras, thermal sensors, and other remote sensors.





Damage Assessment After Natural Disasters

- Collect aerial imagery to help prioritize response by municipal departments.
- Evaluate passability of roads in damage stricken areas.
- Document storm damage for insurance or reimbursement from State or Federal Agencies.

Flooding in New Paltz, NY - October 2021

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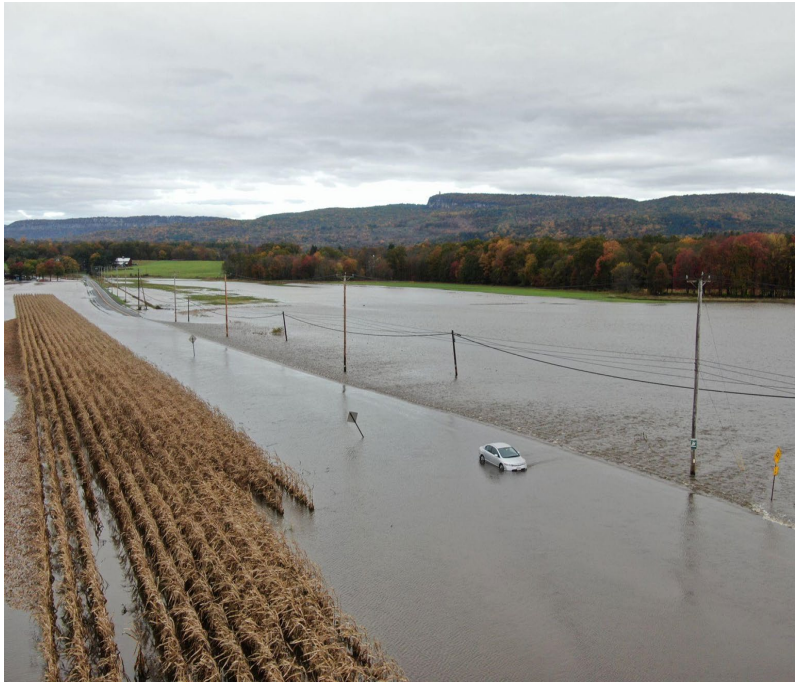


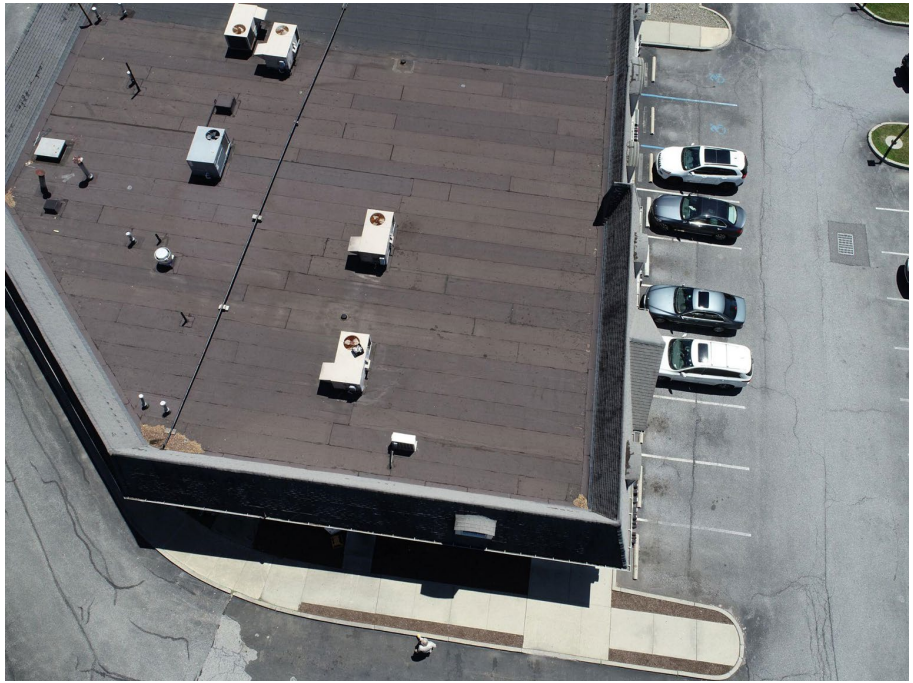
Social Media, Marketing and Public Outreach

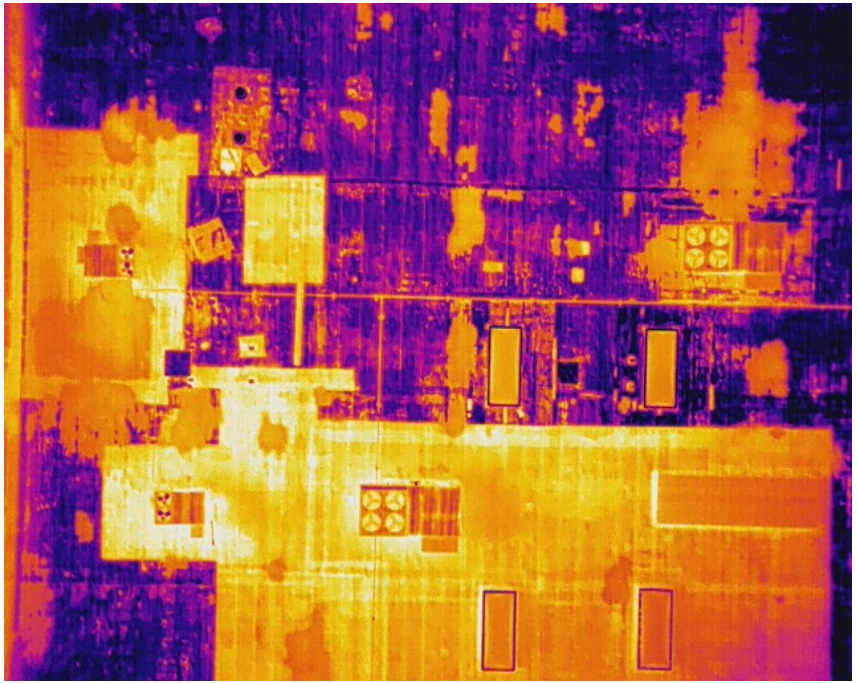
- Drive tourism with photos and videos of areas of interest.
- Create engaging content for social media, website and marketing campaigns.
- Provide residents with visual updates on projects or important topics in the municipality.

Newburgh, NY - Construction

Inspection of Municipal Assets, Roads, Infrastructure

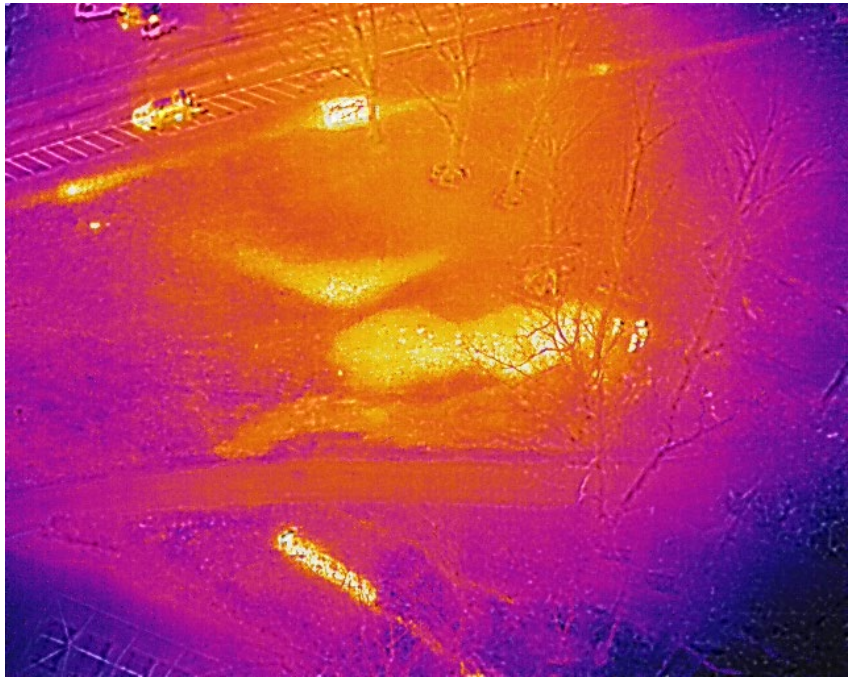
- Evaluate roofs, parking lots, storage yards, roadways, and bridges
- Document deterioration over time and create replacement plans
- Keep employees off of roofs, ladders, active roadways, scaffolding and other hazardous working conditions.

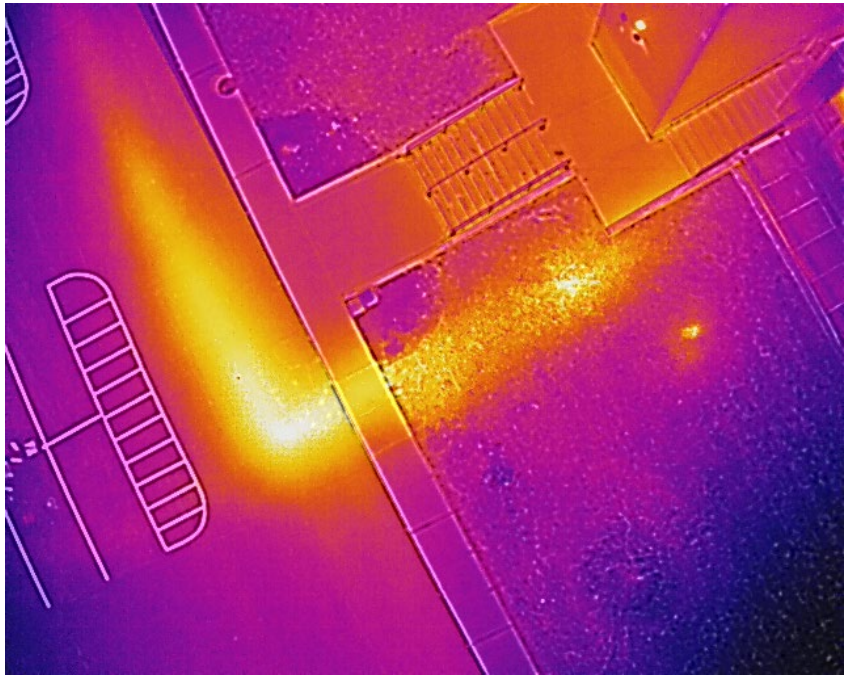




Underground Utility Location

- Locate leaking underground water or steam lines with thermal and visual imagery from above.
- Save time and minimize disruption to customers by pinpointing suspected issues.
- Preventatively scan for leaks to minimize waste.





Event Planning

- Capture current imagery of an event site for planning.
- Determine appropriate locations for events, activities, vendors.
- Allocate appropriate space for vehicle movement and parking.
- Document site before and after scheduled event to ensure that no damage occurred to municipal assets.

Other Possible Uses

- Code Enforcement
- Traffic Studies
- Construction Progress and Contractor Accountability
- Evacuation Plans
- RFP Process
- Facade Inspections

The Benefits

- Improved Safety for Employees and the Public
- Increased Efficiency and Reduced Costs
- Current, Accurate Imagery
- Greater Awareness

Program Considerations

- How could your municipality benefit from unmanned aerial technology?
- Do you, or neighboring municipalities, already have a program in place?
- What assets, projects, situations, events or risks are unique to your municipality?
- Build a program, or hire a contractor?

Questions?

Contact Information

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