

The Utah Department of Transportation's Unmanned Aircraft Systems (UAS)



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Unmanned Aircraft Systems (UAS)

How Can They Help?



UDOT's UAS Website

<https://www.udot.utah.gov/main/f?p=100:pg:0:::1:T,V:4923>

Contact UDOT | YouDOT | Site Map

Google Custom Search

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PUBLIC DOING BUSINESS **INSIDE UDOT** MEDIA PROJECTS AND STUDIES TRAFFIC **CONSTRUCTION**

Home | Inside UDOT | Project Development | Unmanned Aircraft Systems (UAS / Drones)

► Vision, Mission, Strategic Goals and Accountability
New Hire Welcome and Safety Training
► Alphabetic List of Divisions
Director and Deputy Director
► Comptrollers
► Communications
► Operations
► Program Development
▼ Project Development
 Business Information Technologies
 CADD Support
 Central Preconstruction
 Construction, Materials, and Civil Rights Division
 Consultant Services
 Digital Signature Requirements and Set Up
 Electronic Program Management (ePM)
 Environmental
 Geotechnical

Unmanned Aircraft Systems (UAS / Drones)

The use of Unmanned Aircraft Systems (UAS) is expanding rapidly into the transportation industry. The Federal Aviation Administration has worked to standardize UAS policies and integrate unmanned aircraft into the National Airspace System (NAS). UAS provides a wide variety of operational, societal, and economic benefits. Within the Department the use of UAS can significantly provide cost efficiency, improve data quality, and improve personnel safety over an existing method or process.

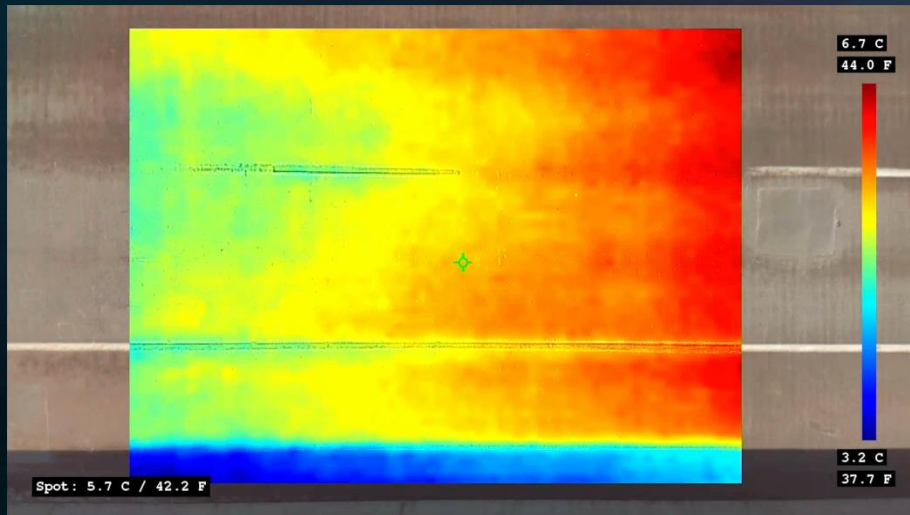
Examples of permitted uses include, but are not limited to, aerial photography, photogrammetry, bridge inspections, geotechnical field investigations, Light Detection and Ranging (LiDAR) applications, public outreach, mapping construction sites and conditions, asset management, asset inspections, traffic monitoring, incident management, disaster response, and training exercises.

Helpful Links

- [UAS Policy](#)
- [UAS Procedures](#)
- [UAS Request Form](#)
- [UAS Contact Information](#)
- [Training and Resources](#)

Structure Inspection

- Delamination
- Deck Mapping
- Inspection



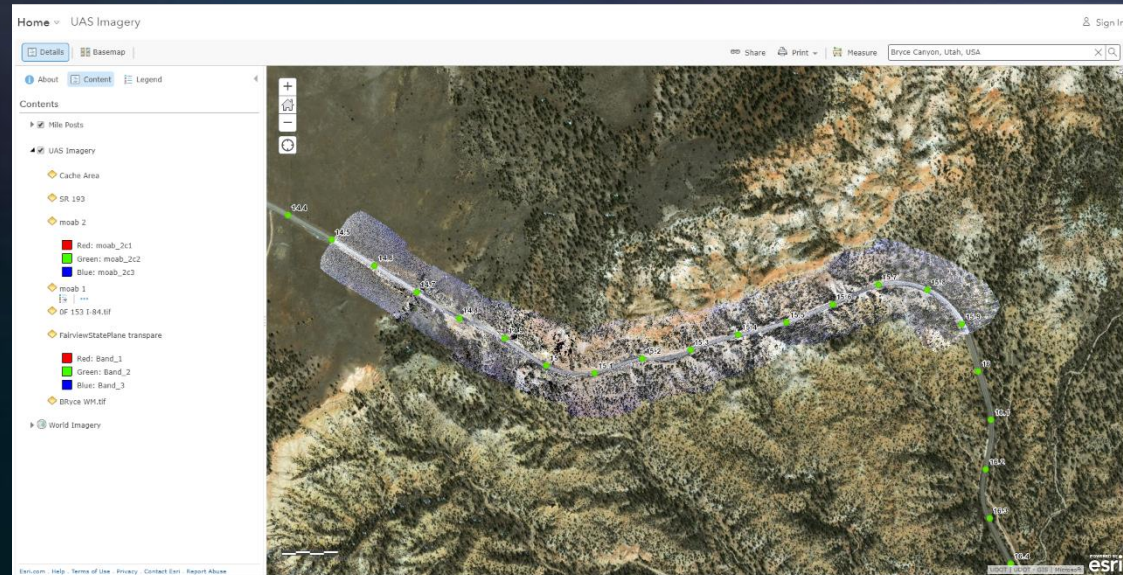
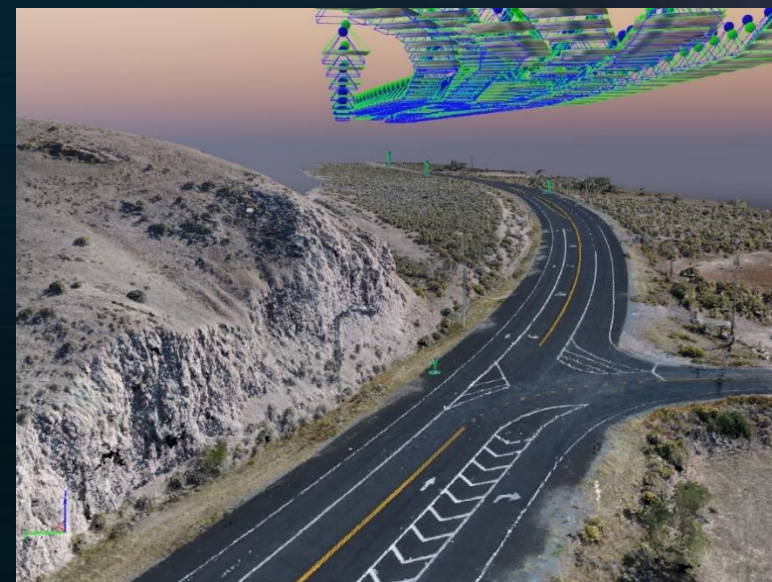
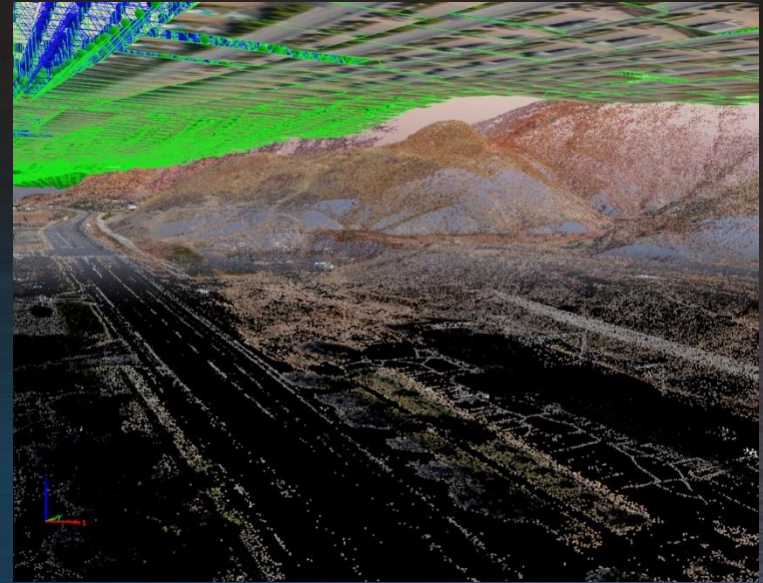
Survey & Mapping

- Quick Response
- High Resolution Aerial Imagery with Point Cloud
- Safety Mitigation



UAS Mapping Examples

- Point Cloud with Imagery
- RGB Point Cloud
- GIS Database of all UAS Imagery

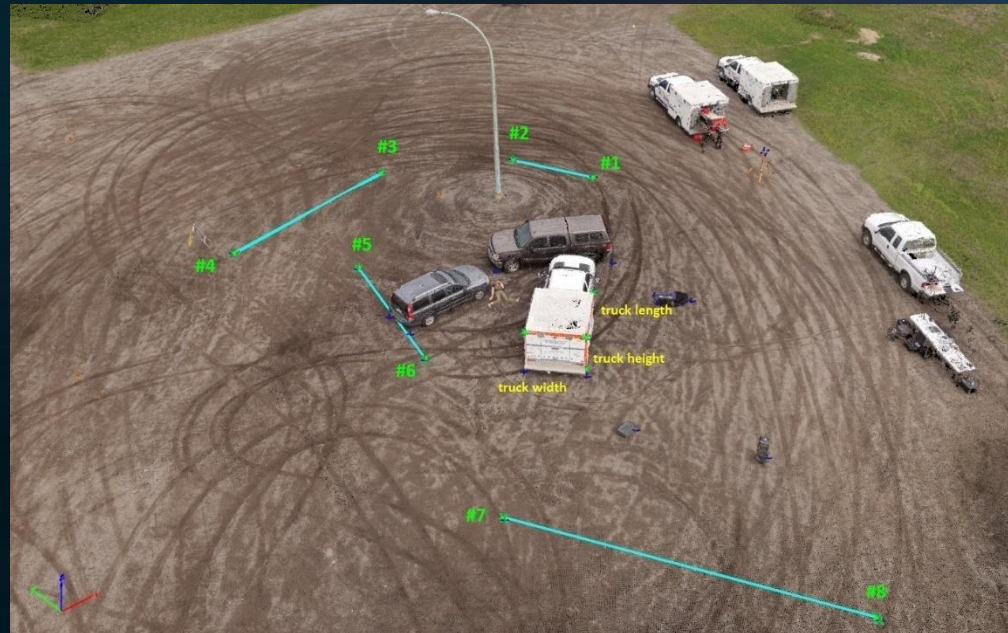


Traffic Monitoring



Incident Management

- UAS for All IMT Vehicles
- Real Time Broadcasting
- Detour Management



- Monitoring Alternative Routes
- Accident Reconstruction
- Search and Rescue

Benefits of Using UAS Technology

- Highly Detailed Mapping Model
- High Resolution Georeferenced Imagery
- Speed of Collection
- Safety
- Increased Efficiency
- Less impact to public



Thank you

