



WHPacific

IMPLEMENTING UAV TECHNOLOGY
IN YOUR NEXT PROJECT

Introduction:

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PARTNERSHIP

The Value of Experience

WHPacific

+

ALASKA
A=RIAL
MEDIA

90+ Years of Experience in
the Engineering Industry.

Survey & Mapping

Native Alaskan Owned

Innovative

Industry leading Service Provider

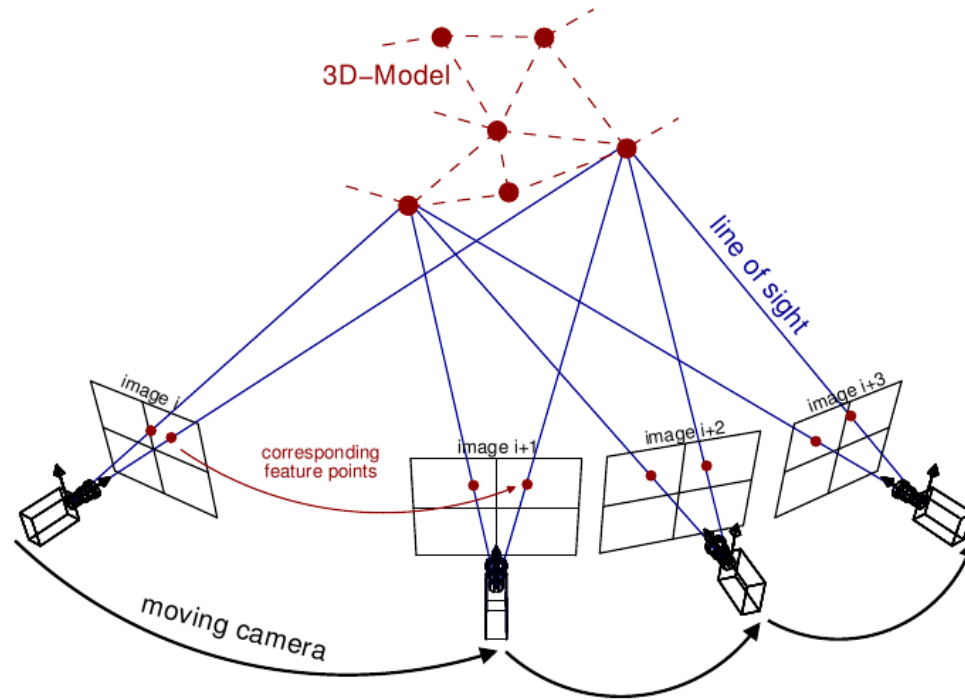
AELS Compliant

Clients include FAA, MOA, SOA,
NOAA, USAF, NASA & AT&T

Data Collection and Processing
Experts

UAV's at WHPacific

1. Regulated industry for data acquisition
 - a. Who's allowed to operate (Private Pilots Vs. FAA 107 certification –)
 - b. Airspace classification & authorization, Class E, B, C,
 - c. Line of sight
2. Easy to deploy on projects due to their compact size
3. Can be hand carried into the field for deployment
 - a. **E Bee videos**
4. Fast acquisition time across varied terrain
5. Uses “Structure from Motion” software algorithms (SfM)
 - a. (SfM) is a mathematical imaging technique for estimating three-dimensional structures from two-dimensional images



b. System Application Video

In 2016 WHPacific's survey group used UAV technology

- ✓ Map large remote communities
- ✓ Collect mapping grade data across heavily wooded sites
- ✓ Forestry inventory across square miles of remote lands
- ✓ As built cell phone towers - speculation

○ AT&T Video

Potential UAV Applications

- Oil and Gas Exploration and Production
- Change Detection and Remote Sensing
- Ice Road/Ice Dam Monitoring
- Flood Plain & Storm Surge Modeling & Coastal Zone Mapping
- Oil Spill Response
- Emergency Response/Natural Disasters
- Environmental (Crops, Wetlands, Forestry)
- Transportation Planning and Development, Aviation Safety
- Tsunami Inundation Modeling
- Native Lands Allotment and Inventorying
- Land Use Planning and Permitting, Land Cover, and Terrain Modeling
- Forest Resource Mapping/Fire Hazard Mapping and Monitoring

- Mining Projects and Prospects
 - **Abbott Rd Video**

Project Value Added Services

- Imagery Acquisition
- Imagery Processing
- Imagery Archives
- Orthorectification
- Topographic Digital Elevation Models (DEM's)
- Terrain Mapping
- Change Detection



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