

Automating Emergency Response Data Collection with

DRONE DOCKS

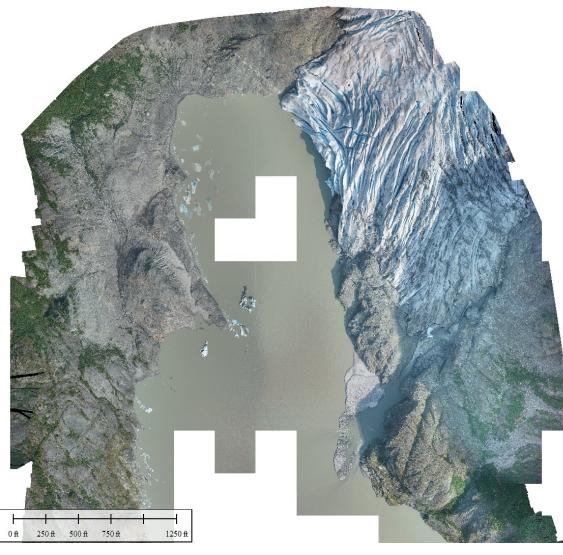


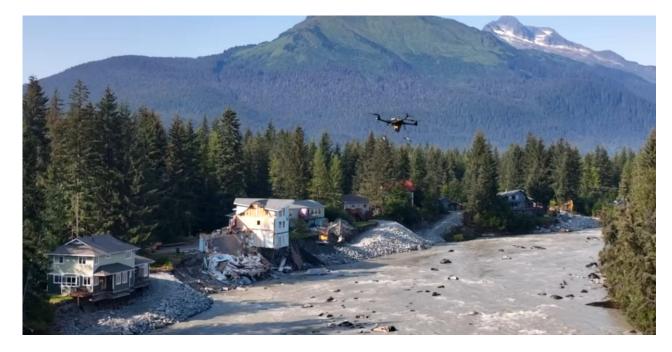


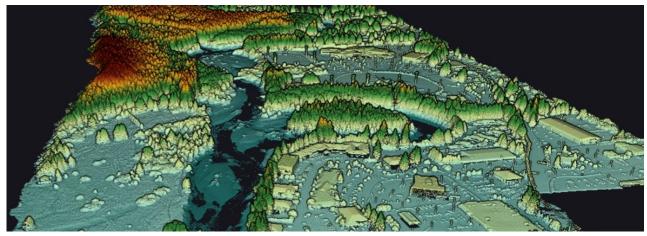




Emergency Response – Glacier Outburst





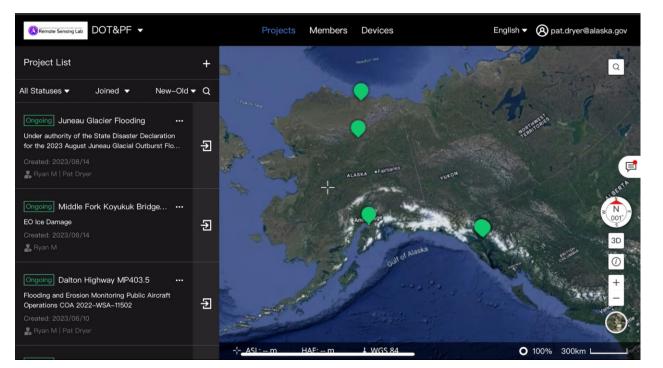






WHEN CRISIS HITS ALASKA'S INFRASTRUCTURE

DJI and Skydio Dock Operations



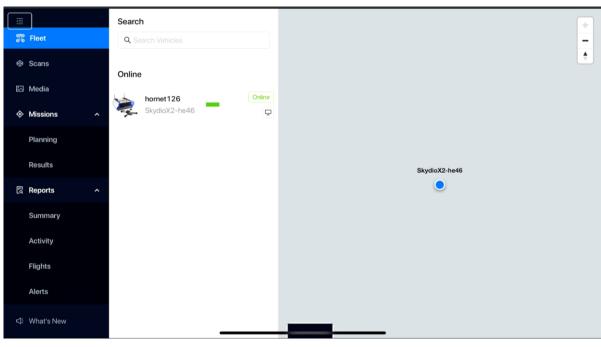


ENTERPRISE



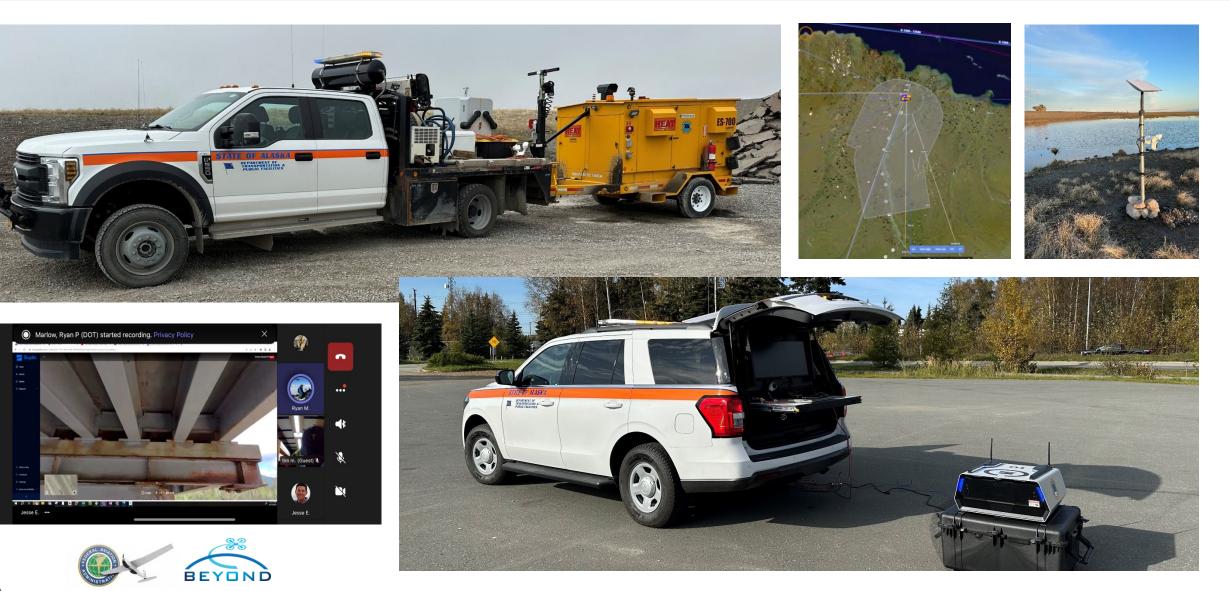








Emergency Response with Docks - BVLOS





Automating Drone Dock Data Workflows



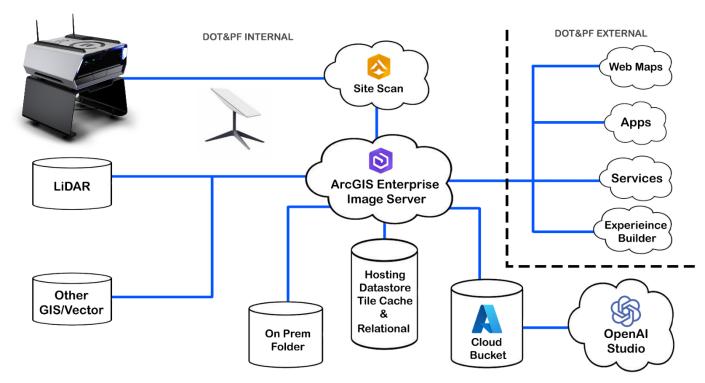
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TTL







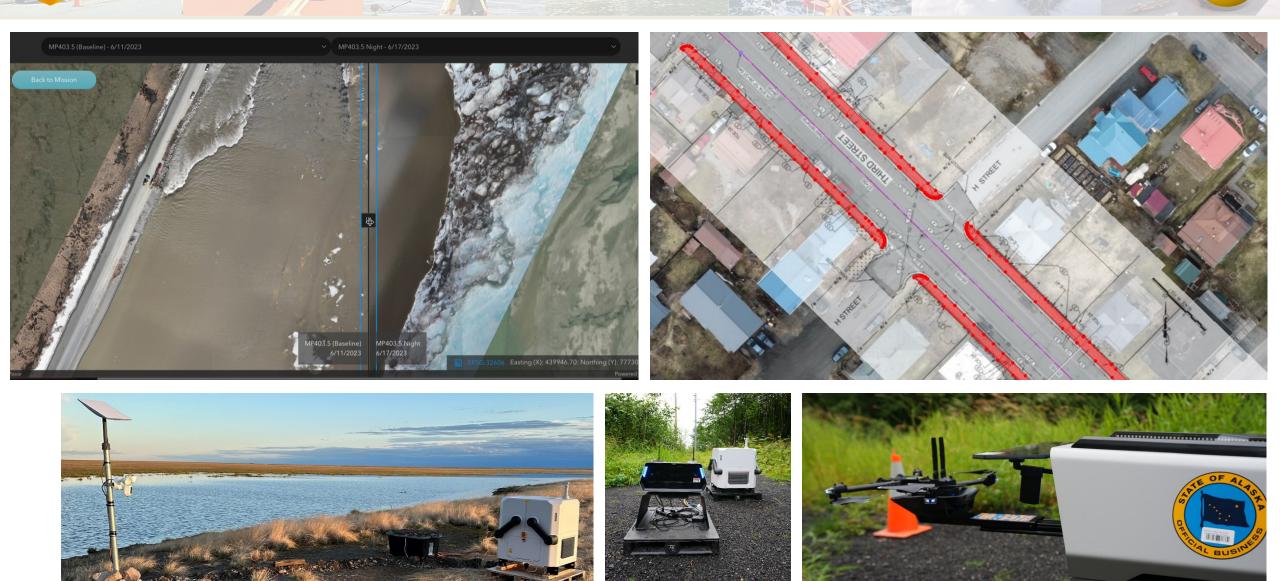








Data-Driven Decision Making

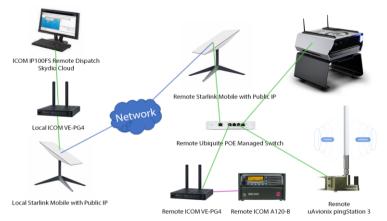




BVLOS AIRSPACE PROCEDURES NOTAM, ATIS, TFR's & SGI COA's



Remote Monitor and Broadcast for VHF/ADSB







SCR Avalanche Program

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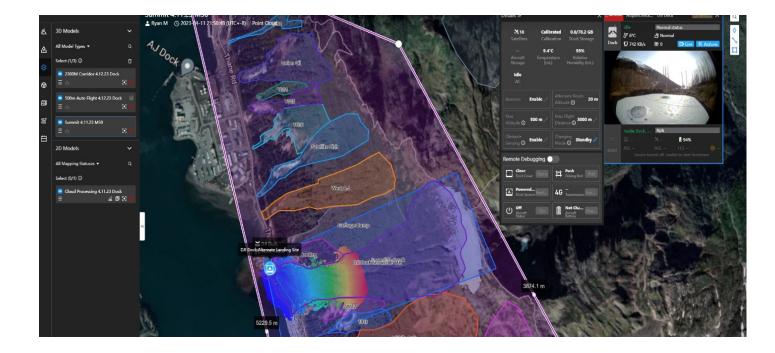
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念	Dock	~
\$	In progress Remaining 18 mins	Flight 2- April 1423_2
¢	Dock-Gastineau Task in Pro	Normal status
2	🖶 Pat Dryer	M30T Camera
5	Online Devices	^
₿	Online Members	o ~
	🖵 Pat Dryer	
	🖵 Grant Hosticka	1

S Retu... X Flight 2- April... Gastineau lemanine 18 r Task in Progre... Normal status ---JF 10.3°C A Normal Dock 🔁 1.0 MB/s 0 0 De Live 🕺 Actions Normal status E. ... **1**70% RTK 330 ASL 511.1 m H.S 0 m/s AGL 7 m M30T E FPV Camera M30T Camera 20.46 ross Bay Grefik condito Last Change - Colorest Middle Patrols M30T-1 ASL: ST1.1 m Dir Dock Snowslide TFR. TOIR RP 8 0.7 21 - 48 AOE 3000 Class D excluded T012 GarbageDump Lemon w.2000' MSL OUTH TIP Fish DOUGLAS 352 SA MON L TEK 25 Creek PUHN ISL West An 286 (278) JUNEAU 🞽 Gastineau DOUGLAS BRIDGE POINT Satellite Dish Gastineau-Alternate Landing Site EAGLECREST Douglas 3429 122.15 HORSE AND UNEAU DOWNTOWN RCO JUNEAU T006 PASSAGE 3337 39 9 cabin 1005 13 light Union Oil T004 Point P Magnetic disturbance of 170° or more 50 exists at ground level in this vicinity

C

🛞 763 m













UAS Dock Development

Challenges:

- Require AC power and network connectivity
- Limited field of view from the drone dock
- Currently lacking ability to monitor or broadcast remote VHF traffic
- Inclement weather
- Environmental challenges

Benefits:

- Increased efficiency of many aspects of workflows
- Building resiliency through response
- Data-driven decision making
- Increased effective communication
- Increased collaboration amongst groups







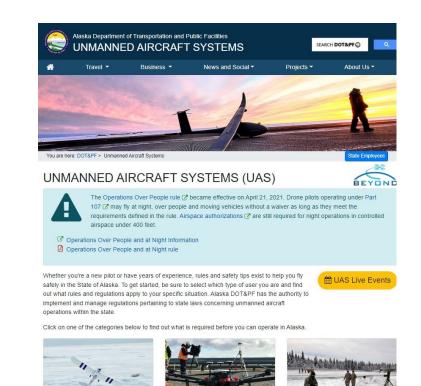
DOT&PF UAS Resources



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Commercial Operato

Public Oper

Recreational Use

