

Cook Inlet Oil and Gas UAS Infrastructure Support

Hunter Van Wyhe, Operations Engineer

Meet Alaska

March 22, 2024



About Our Operations

Alaska's Only Locally Owned & Operated Independent Gas Producer



Julius R offshore
Platform
Offshore
Operations



15-mile sub-sea
Gathering Line



Nikiski Central
Processing
Facility

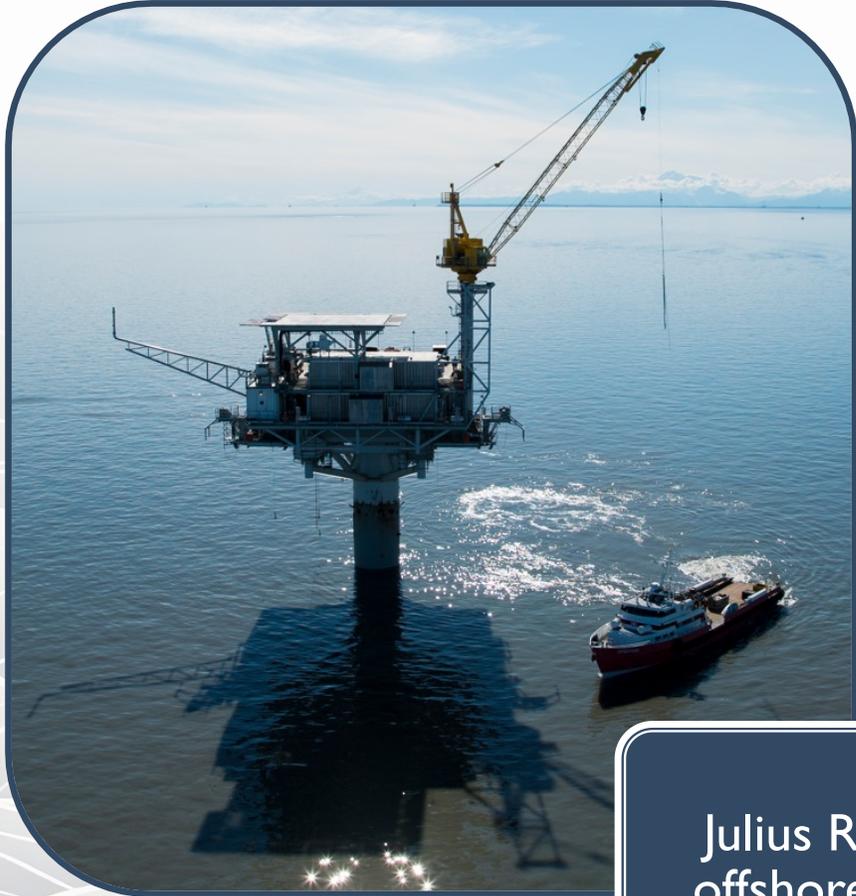


Gas Sales to
Electric Utilities,
Gas Utilities,
and Refinery in
Southcentral
Alaska

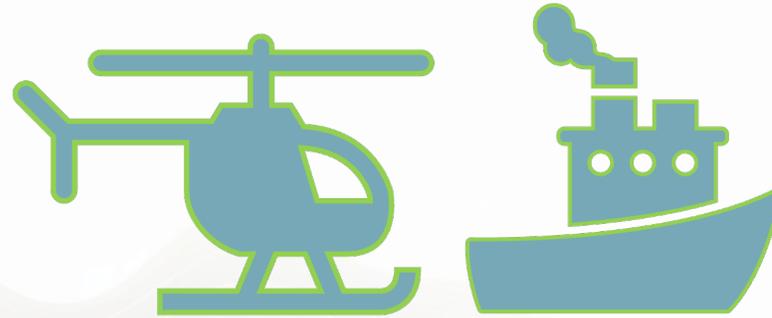


Heating
Alaskans' homes

Offshore Operation Challenges

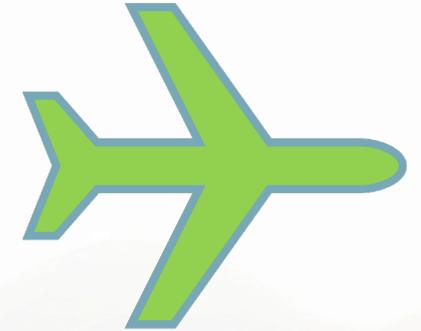


Julius R
offshore
Platform



Traditional Transportation

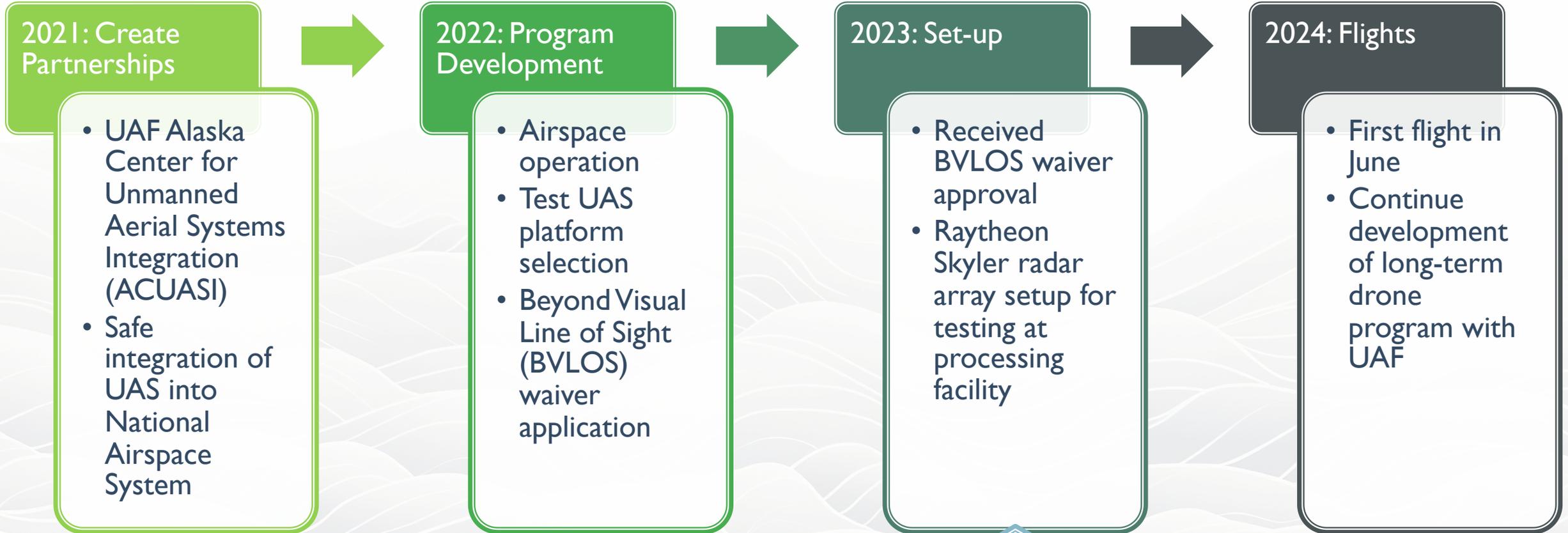
- Manned
- Weather delays
- Personnel, testing, & equipment



Drones

- Unmanned
- Less weather delays
- Testing & small equipment

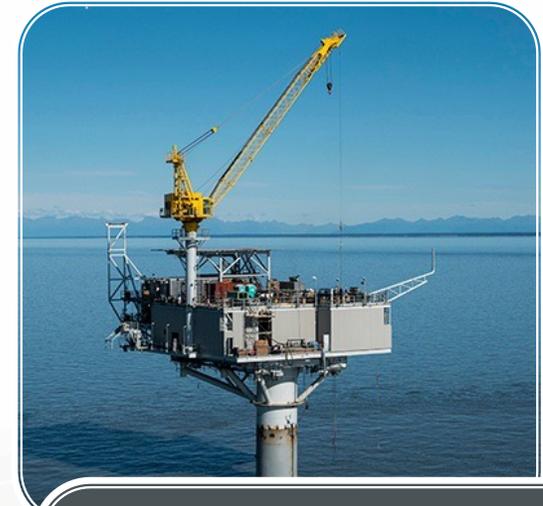
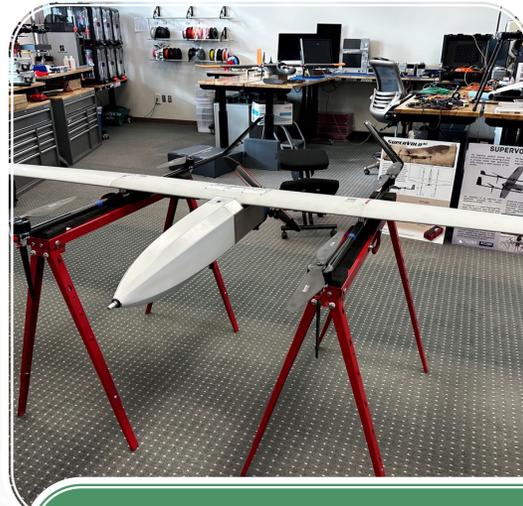
Drone Program



• 1st BVLOS U.S. waiver approved for flights to and from an offshore platform

• 2nd BVLOS waiver approved in Alaska with no limits to altitude of less than 400'

Drone Operations: Test



Raytheon Skyler Radar Array

- Ground based detect and avoid system
- Location and aircraft monitoring
- NOTAM for each flight
- Monitor air traffic control

SuperVolo Gen 4

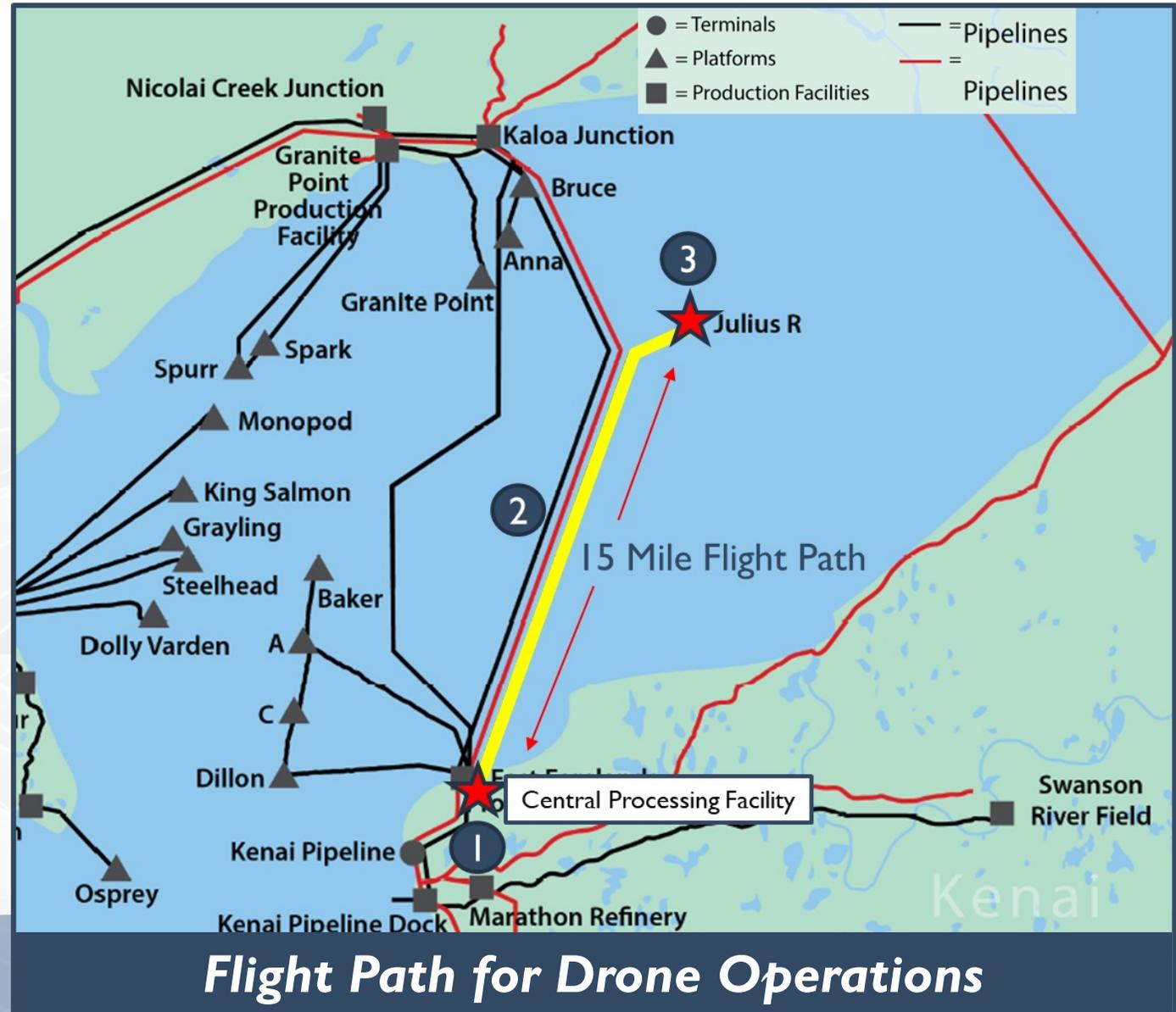
- Hybrid gas/electric motors
- Vertical take off and land
- Cruising speed: 50 knots

Test Flight

- 20-30 minutes to fly the 15 miles to the platform
- 1 pilot at processing facility and 1 pilot on the platform
- Payload delivered to shore

Drone Operations: Plan Forward

- Proof of Concept Flight Tests for Safe and Reliable Operations
- Identify Long Term UAS Platform
- Develop Operating Procedures
- UAF to train Furie Pilot Operators
- Furie to carry out day to day operations



Innovation for Alaska

UAS to deliver
time sensitive
items to
platform

Utilize emerging
technology in
Alaska to
address
operational
challenges

Reduces
Carbon
Footprint

Alternative
Industry Uses

- Routine inspection of onshore and offshore facilities
- Pipeline monitoring and maintenance
- Proof of concept case to support future UAS use in O&G



Questions?

