# Military & Veterans Affairs Committee

2025 John Oberst



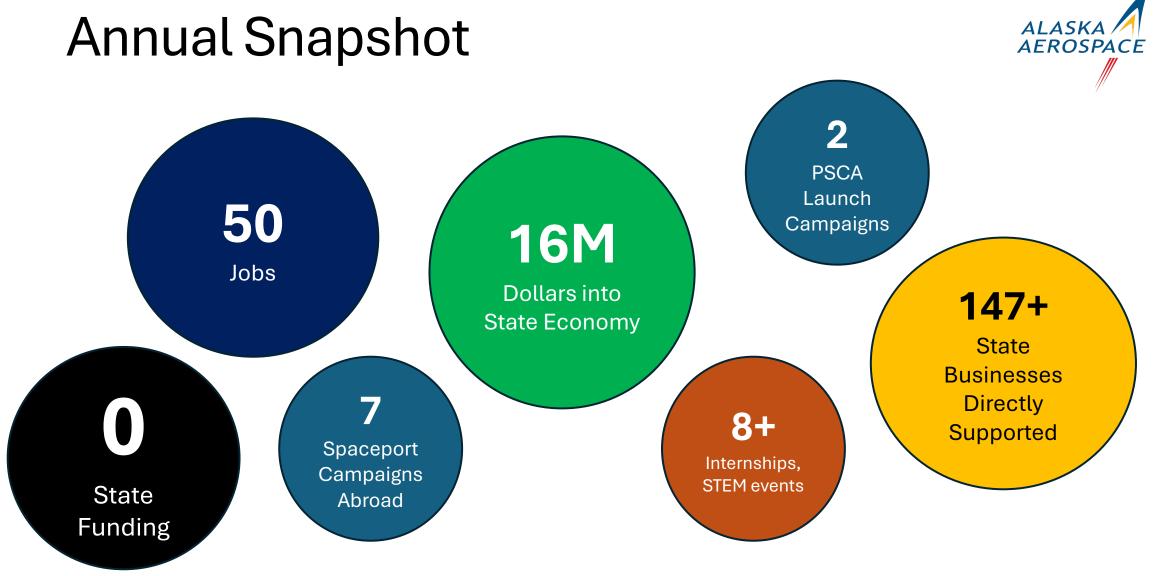


### **About US**



National Geographic Video

https://www.youtube.com/watch?v=nF7ZCZXyvRE



We measure success with long-term Alaskan jobs, local business dollars into State, STEM support (internships, scholarships & tours) and proven State aerospace leadership

### **About US**



- Alaska Aerospace Corporation (AAC) established in 1991
  - Headquarters located in Anchorage, Alaska
  - State owned Corporation
  - Alaska statute driven
  - State lead for exploration and development of space
  - Partnered by statue with the University of Alaska Geophysical Institute which operates the Poker Flat Rocket Range (PFRR) in Fairbanks
- AAC operates the Pacific Spaceport Complex-Alaska (PSCA) since 1998
  - Launch facilities located on Kodiak Island, Alaska
  - First FAA licensed commercial vertical/orbital spaceport
  - Located on State land
  - Government and Commercial customers
  - 34 launches to date

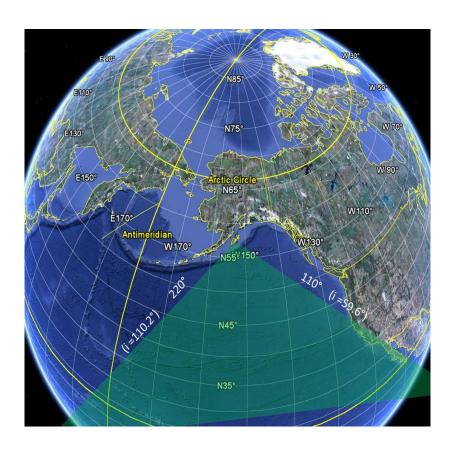


Alaska owns the first FAA licensed commercial vertical/orbital spaceport in the world





- One of four orbital/vertical launch facilities in the US (a National Asset)
- 3700 acres of public land at Narrow Cape
- Largest azimuth range of any US spaceport
- Only US facility that can launch directly into high inclination 63.4 deg
- Sun synchronous incl between 59 and 110 deg
- Low risk launches over remote North Pacific waters
- Stable and suitable year-round weather
- Uncongested, flexible & responsive launch operations
- Road access to PSCA owned by State
- Port deep-water, ice free, open year round
- Airport State operated commercial/cargo (C-5)



The PSCA is accessible, uncongested and geographically ideal for a variety of missions



























# Launch Pads













The PSCA has six launch pads supporting solid and liquid fuel launch vehicles



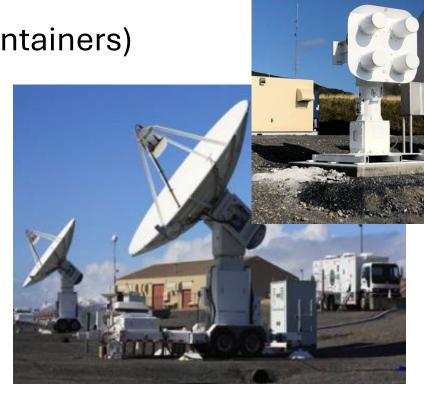


- Mission Planning & Integration
- Range Safety
- Instrumentation
- Meteorological Support
- Security & Emergency Services
- Site Engineering & Operations
- Purchasing
- Logistics

# AAC Range Safety, Telemetry and Tracking System (RSTS)



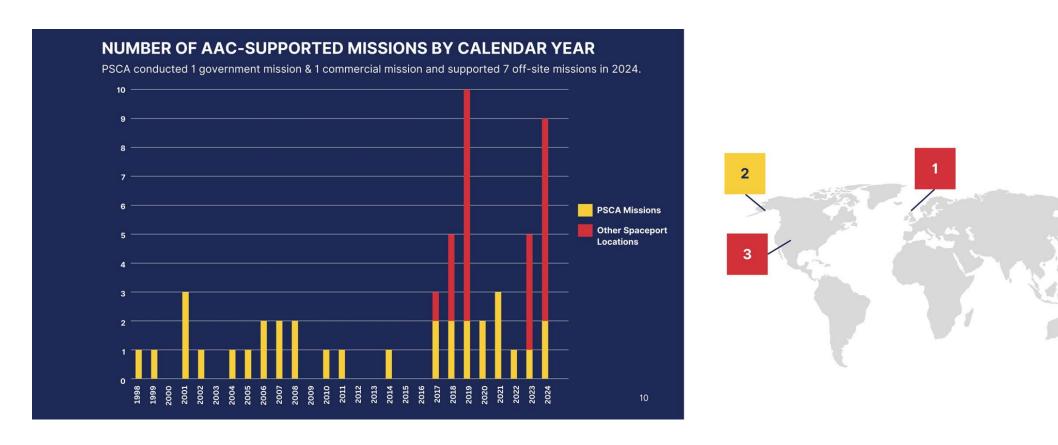
- Fixed and Mobile Systems
- Mobile (seven deployable 20' containers)
- Range Safety
- Tracking
- Telemetry
- Recent MDA DoG campaign
- Australia & UK campaigns



RSTS has no commercial equivalent which makes it a high demand system around the globe

# **AAC Operational Highlights**





AAC other spaceport location missions include launch support campaigns using our commercial & deployable Range Safety, Tracking & Telemetry System (RSTS) & other spaceport services

# AAC Strategic Plan



### **VISION**

Alaska Aerospace Corporation (AAC) Pacific Spaceport Complex-Alaska (PSCA), is our core business, enabling aerospace leadership, jobs and industry growth in the last frontier. State Aerospace Leader, State Job Craetor and Dollar Driver into State Economy

### **MISSION**

Lead State in exploration and development of space, providing a unified direction, to enhance human and economic development

### **PURPOSES**

Space-related economic growth thereby ensuring a stable and dynamic research and business climate by attracting space related businesses to locate within the opportunities provide by the state

For development of a state strategy for and to implement the acceleration of spacerelated economic growth and education and the state by the use of innovative development methods designed to stimulate space-related business and educational development and improve the entrepreneurial atmosphere in the state

For promotion of space-related tourism activities at Poker Flat **Research Range** and other spacerelated facilities or centers that may be utilized or established by the corporation

To recognize the importance and benefits of and to promote and encourage the continued utilization of Poker Flat Research Range for the University of Alaska's polar research efforts

Space-related educational and research development by encouraging and assisting the University of Alaska (UA) in developing spacerelated programs, research and courses of instruction and to assist UA as a member of the Space Grant State Consortia under 42 USC 2486 NSGC&FP

To promote the continued utilization of the Poker Flat Research Range as a launch site for launch vehicles and for scientific research both from ground based and rocket or balloon based instrumentation

### Alaska **Statutes** Verbatim

### FINANCIAL STABILITY

### **SECURE CORE BUSINESS**

- 12 annual launches
- **Modernize and grow RSTS**
- Medium lift capability
- Prepare for dual ops
- **Barge/Road improvements**

### **DIVERSIFY BUSINESS**

- **Secure Line of Credit** 
  - **Secure Fed Plus-up Funding**
  - **Secure Fed Prog Funding**
  - **Secure State MX Funding**

- **PSCA Hypersonic Test Range**
- **PFRR Orbital Spaceport**
- **Aerospace Finance/Lease**
- **Alaska Fed Service Contracts**
- **Alaska Airship Ops**

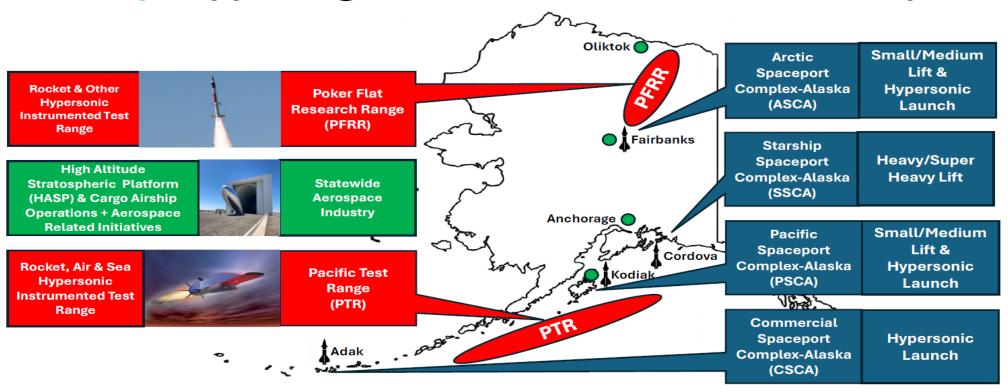
**GOALS** 

**OBJECTIVES** 

### **End State**



Alaska End State Four Spaceports, Two Hypersonic Ranges & Industry Supporting National Defense & Access to Space



# Questions



### **ALASKA AEROSPACE CORPORATION**

John Oberst
President & Chief Executive Officer
john.oberst@akaerospace.com
Direct (907) 771-8031
www.akaerospace.com



# Backup Slides



# Launch History



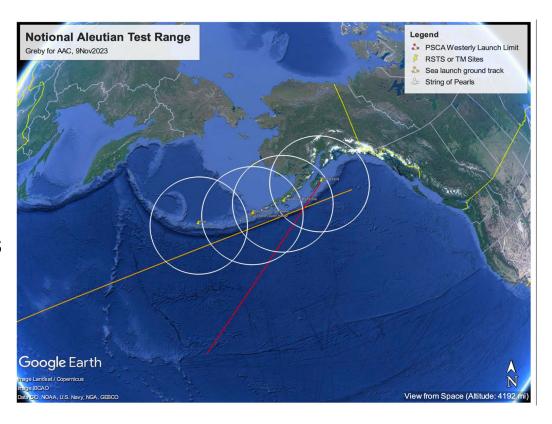
YEAR	MONTH	SPONSOR	MISSION		YE	YEAR	YEAR MONTH	YEAR MONTH SPONSOR
1998	NOV	USAF	AIT-1		20	2017	2017 JUN	2017 JUN MDA
1999	SEP	USAF	AIT-2				JUL	JUL MDA
2001	MAR	USAF	QRLV-1		20	2018	2018 JUL	2018 JUL Astra
	SEP	NASA/USAF	Kodiak Star	A			NOV	NOV Astra
	NOV	SMDC	STARS WCRRF					
2002	APR	USAF	QRLV-2	201	19		JUL	JUL MDA
2004	DEC	MDA	IFT-13C	202	20		FEB	FEB DARPA
2005	FEB	MDA	IFT-14				MAR	MAR Astra
2006	FEB	MDA	FT04-1				AUG	AUG Astra
	SEP	MDA	FTG-02				SEPT	SEPT Astra
2007	MAY	MDA	FTG-03				DEC	DEC Astra
	SEP	MDA	FTG-03a	202	21		JUN	JUN MDA
2008	JUL	MDA	FTX-03				SEP	SEP Astra
	DEC	MDA	FTG-05				ОСТ	OCT MDA
2010	NOV	USAF	STP-S26			ı	VOV	NOV Astra
2010	NOV	OOAI	(FalconSat 5)	202	22	J	AN	AN ABL
2011	SEP	ORS/USAF	TacSat-4	Photo Credit: Astra / John Kraus		M	AR	AR Astra
2014	AUG	SMDC	AHW FT-2	Launch Campaign did not result in liftoff 202	23	JAN	1	N ABL

34 PSCA Launches to Date

# PSCA Hypersonic Test Range Overview ALASKA CE



- Rapidly adds national range capacity
- 1100+ miles over water
- Land instrumentation for 24/7 availability
- Range Safety, Tracking & Telemetry System
- Terminal support with autonomous boats
- Supports vertical, air & sea launch vehicles
- Government & Commercial customers
- FY25 ask of 5M for development/IOC CY25
- FY26 ask of 20M for FOC CY26



### PFRR Overview

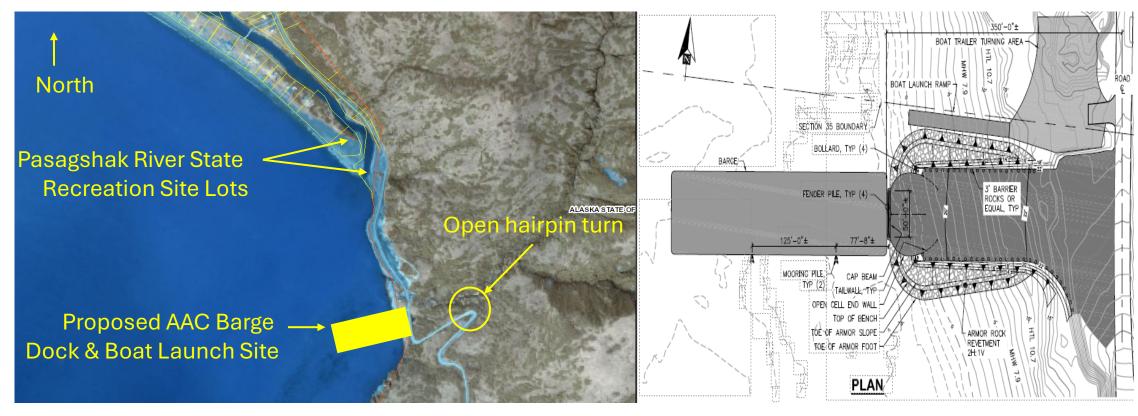


- Established rocket operations by NASA
- Corridors to the Arctic Ocean
- Down range science support
- FAA spaceport licensing underway by AAC
- Recovery services provided by AAC
- State of the art support facilities
  - Range Control Center
  - GI Machine shop
  - GI Electronics shop
  - GI space science facility



### PSCA Barge Landing/Road Improvement





Addresses medium lift launch logistics and takes traffic off road to Kodiak