

**Military & Veterans
Affairs Committee**

March 4, 2025

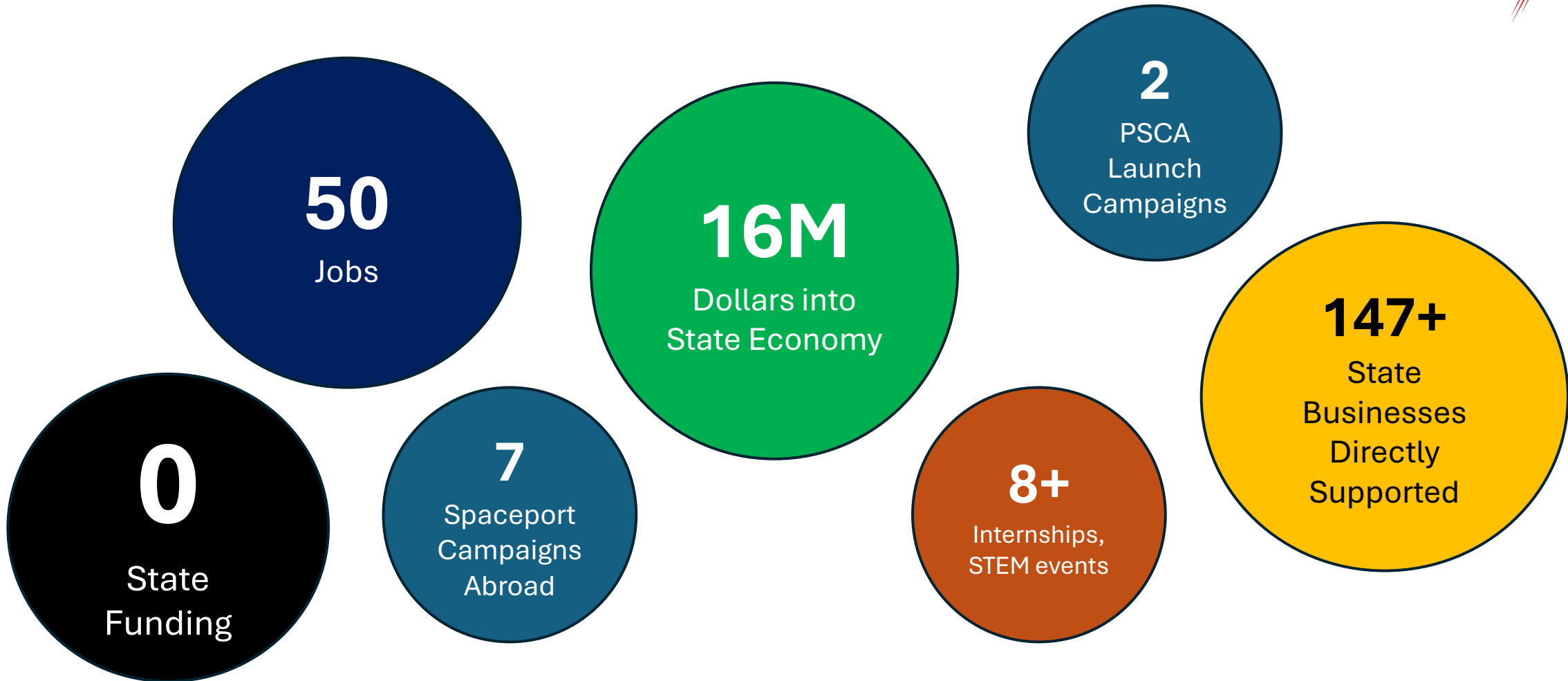
John Oberst



ALASKA
AEROSPACE



Annual Snapshot

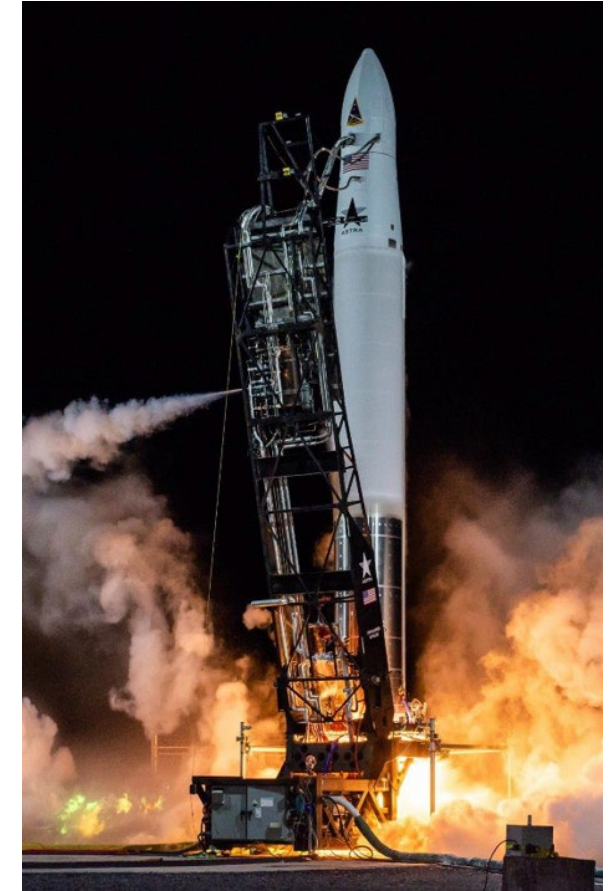


We measure success with long-term Alaskan jobs, local business dollars into State, STEM support (internships, scholarships & tours) and proven State aerospace leadership

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 statute 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



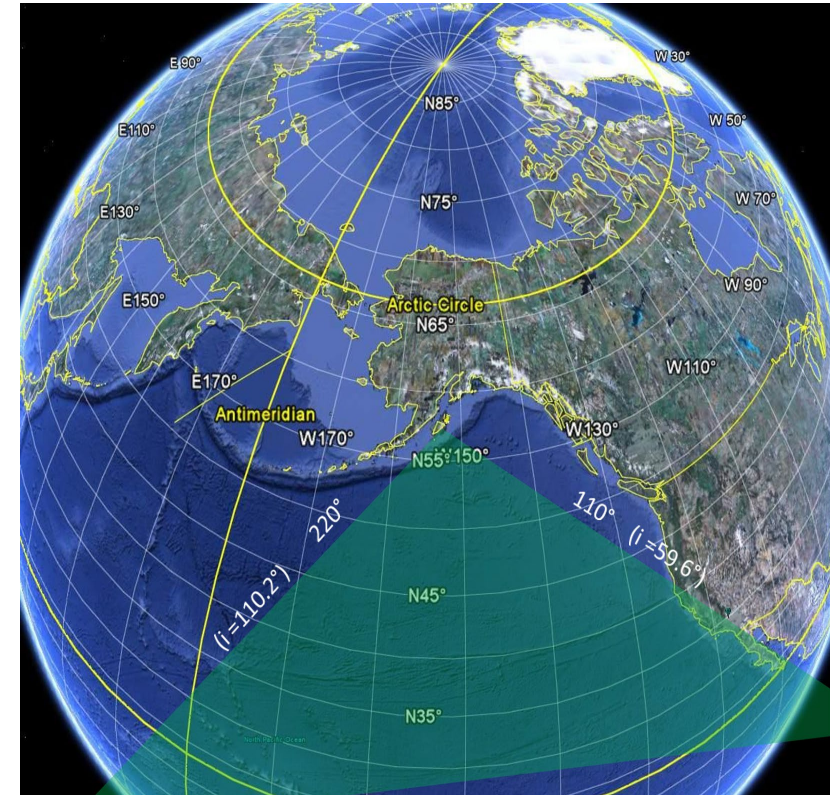
Alaska owns the first FAA licensed commercial vertical/orbital spaceport in the world



PSCA



- 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



Facilities





Launch Pads



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



Services



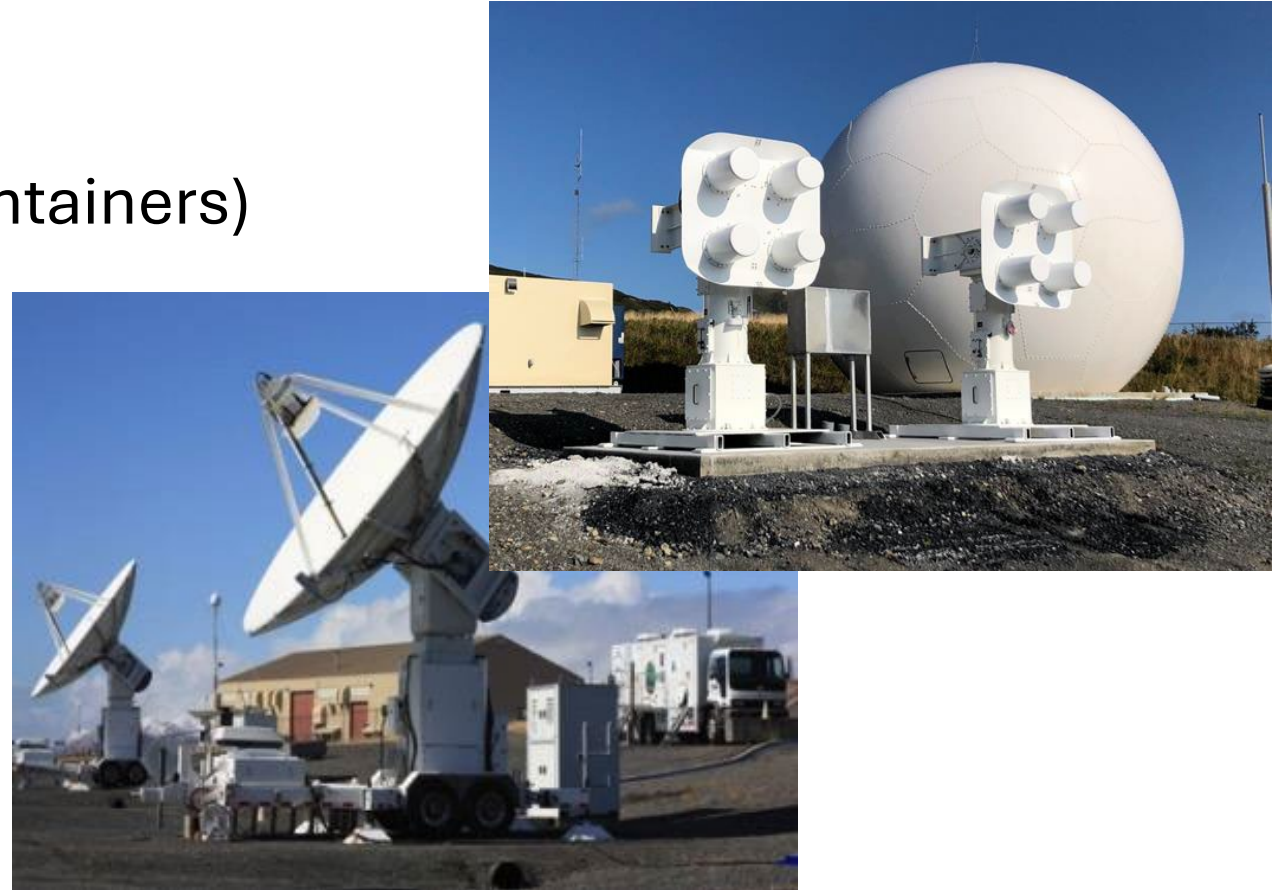
- Mission Planning & Integration
- Range Safety
- Instrumentation
- Meteorological Support
- Security & Emergency Services
- Site Engineering & Operations
- Purchasing
- Logistics

The PSCA provides complete commercial range services like Federal ranges

AAC Range Safety, Telemetry and Tracking System (RSTS)

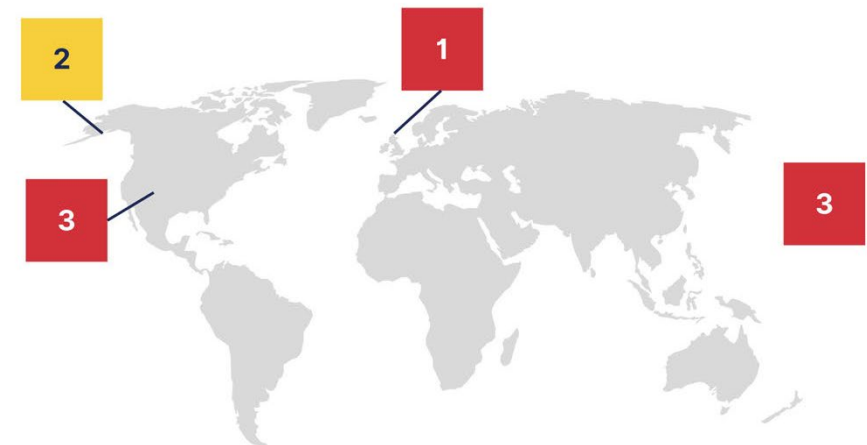
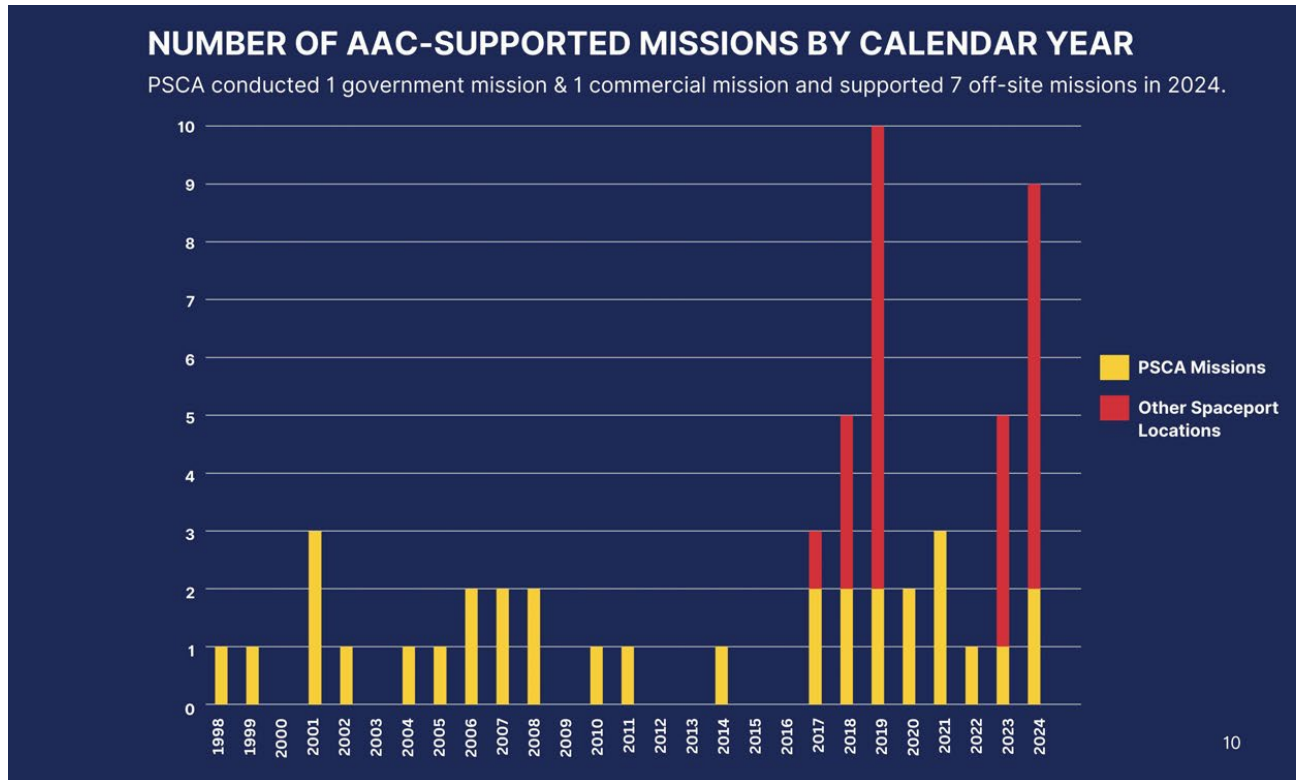


- Fixed and Mobile Systems
- Mobile (seven deployable 20' containers)
- Range Safety
- Tracking
- Telemetry
- Recent MDA DoG campaign
- Australia & UK campaigns



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 space-related economic growth and education and research development in the state by the use of innovative development methods designed to stimulate space-related business and educational and research development and improve the entrepreneurial atmosphere in the state	For promotion of space-related tourism activities at Poker Flat Research Range and other space-related 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 space-related 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
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Alaska Statutes Verbatim

GOALS

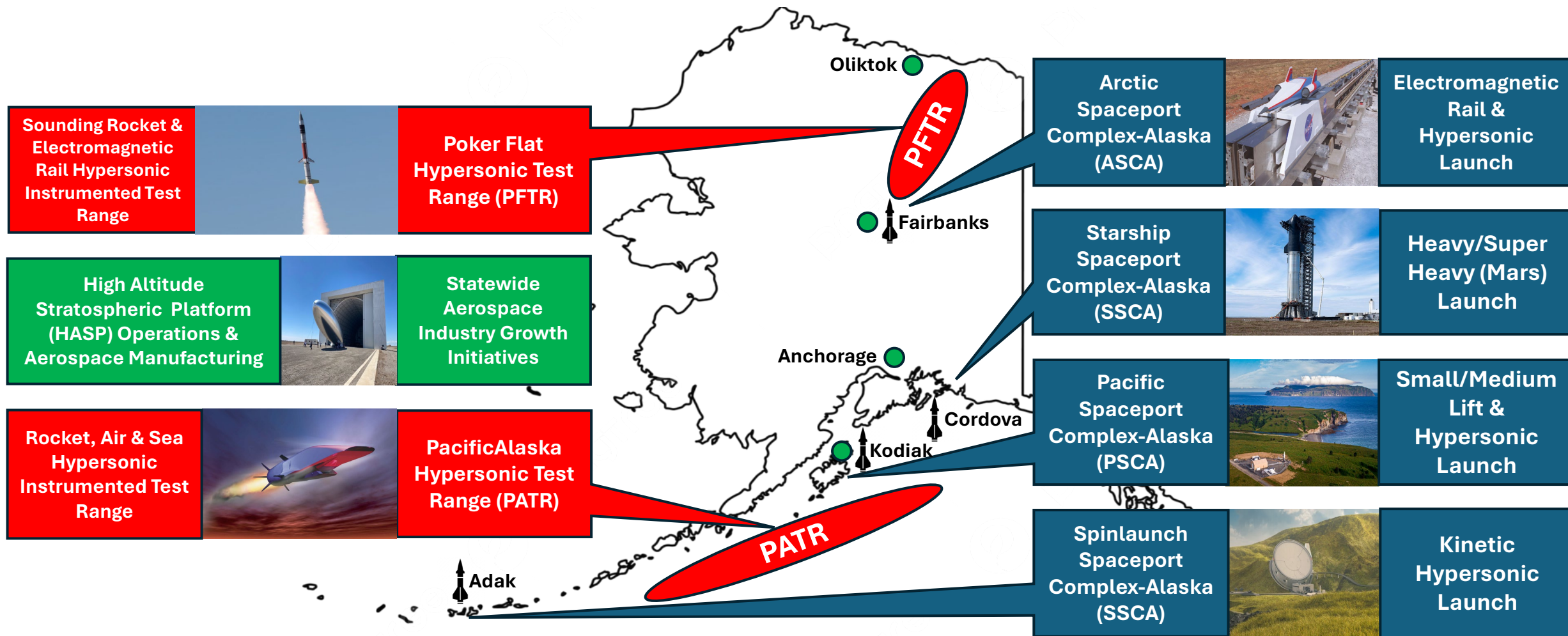
FINANCIAL STABILITY	SECURE CORE BUSINESS	DIVERSIFY BUSINESS
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OBJECTIVES

<ul style="list-style-type: none"> Secure Line of Credit Secure Fed Plus-up Funding Secure Fed Prog Funding Secure State MX Funding 	<ul style="list-style-type: none"> 12 annual launches Modernize and grow RSTS Medium lift capability Prepare for dual ops Barge/Road improvements 	<ul style="list-style-type: none"> PSCA Hypersonic Test Range PFRR Orbital Spaceport Aerospace Finance/Lease Alaska Fed Service Contracts Alaska Airship Ops
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ALASKA AEROSPACE CORPORATION ENDSTATE

Four Spaceports, *Two Hypersonic Ranges* & *Industry* Supporting National Defense & Access to Space



Alaska's vast geography, open water, low population and aerospace heritage enables US missile defense and assured access to space

Questions



ALASKA AEROSPACE CORPORATION

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Backup Slides



Federal Funding Impact on PSCA



	FY22	FY23	FY24	FY25 pend	FY26 ask	IMPACT
RSLP Plus-up	20M	25M	25M	25M	30M	Ensured government access to space from state commercial vertical orbital spaceports
AAC PSCA Only	9.5M	12M	12M	12M	14M	<ul style="list-style-type: none"> • Spaceport Infrastructure Improvements • Security and Safety Enhancements • Communication Systems Upgrades • Instrumentation Modernizations
AAC HTR Only				5M	18M	HTR IOC CY25 and FOC CY26 (12-25 test events annually)

Federal funding is to ensure the PSCA facilities and equipment is available for government launch

Launch History



YEAR	MONTH	SPONSOR	MISSION		YEAR	MONTH	SPONSOR	MISSION
1998	NOV	USAF	AIT-1		2017	JUN	MDA	FTT-18
1999	SEP	USAF	AIT-2		2017	JUL	MDA	FET-01
2001	MAR	USAF	QRLV-1		2018	JUL	Astra	Commercial Test R1
	SEP	NASA/USAF	Kodiak Star		2018	NOV	Astra	Commercial Test R2
	NOV	SMDC	STARS WCRRF		2019	JUL	MDA	FTA-01
2002	APR	USAF	QRLV-2		2020	FEB	DARPA	Launch Challenge*
2004	DEC	MDA	IFT-13C		2020	MAR	Astra	Commercial R3.0*
2005	FEB	MDA	IFT-14		2020	AUG	Astra	Commercial R3.1*
2006	FEB	MDA	FT04-1		2020	SEPT	Astra	Commercial R3.1
	SEP	MDA	FTG-02		2020	DEC	Astra	Commercial R3.2
	MAY	MDA	FTG-03		2021	JUN	MDA	FTX-43*
2007	SEP	MDA	FTG-03a		2021	SEP	Astra	Commercial R3.3
	JUL	MDA	FTX-03		2021	OCT	MDA	FTX-43
2008	DEC	MDA	FTG-05		2021	NOV	Astra	Commercial R3.4
	NOV	USAF	STP-S26 (FalconSat 5)	2022	JAN	ABL	RS1-001*	
2011	SEP	ORS/USAF	TacSat-4	2022	MAR	Astra	LV0009	
2014	AUG	SMDC	AHW FT-2	2023	JAN	ABL	RS1-001	

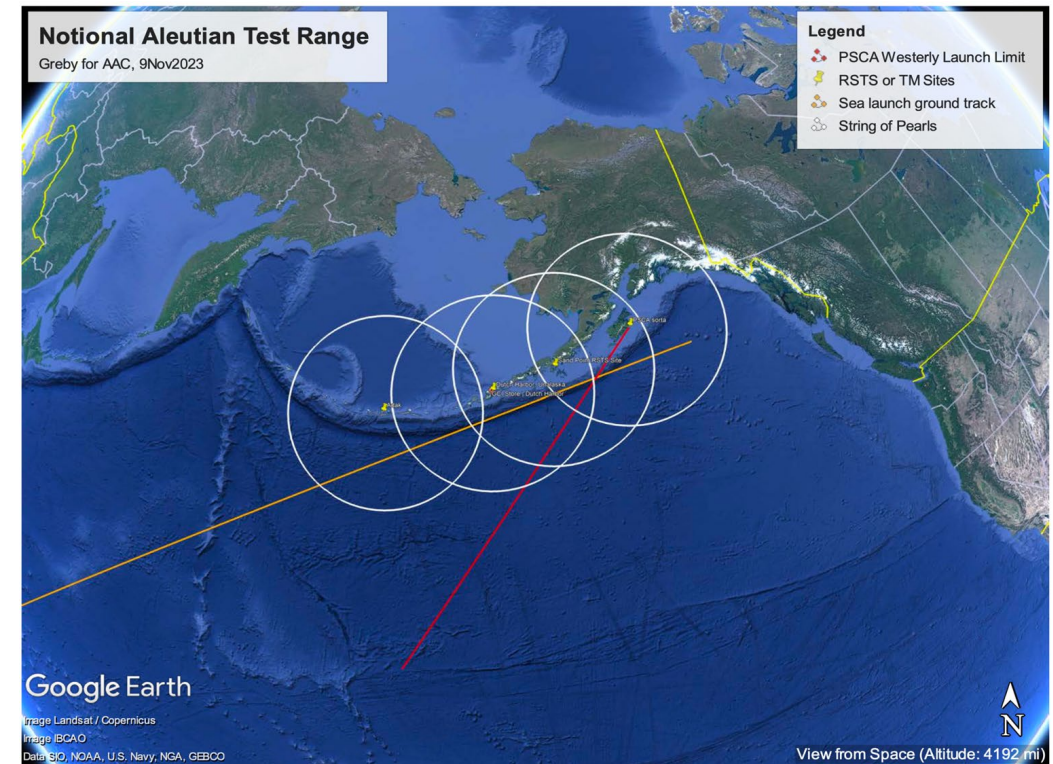
* Launch Campaign did not result in liftoff

34 PSCA Launches to Date

PSCA Hypersonic Test Range Overview



- 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

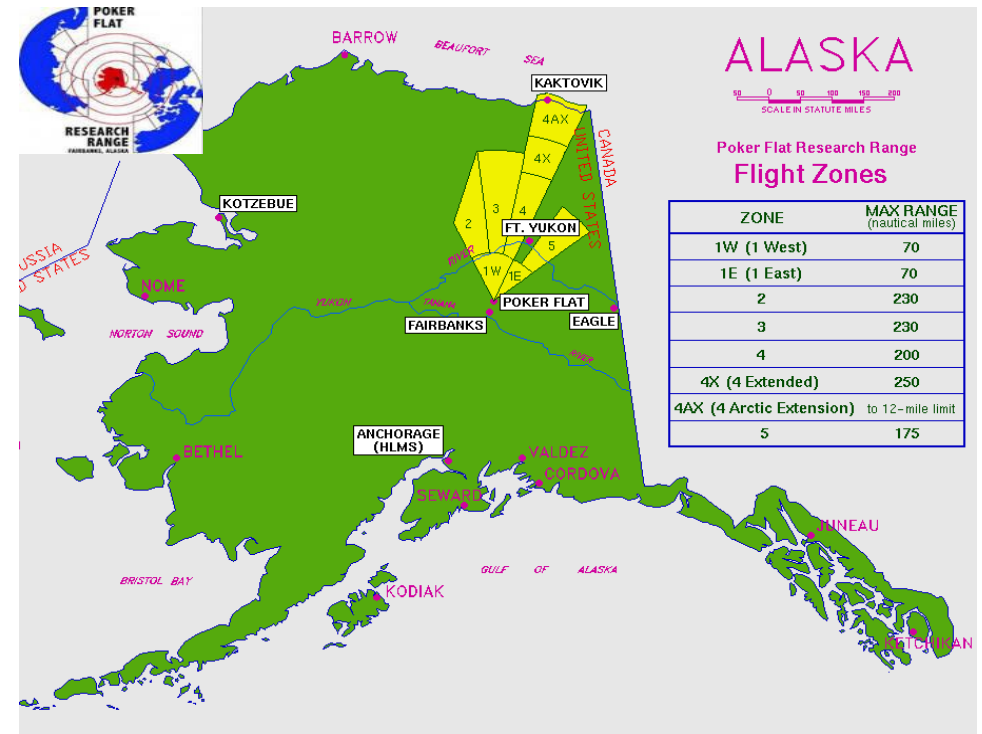


Instrumented Hypersonic Range (over water) possible with funding now

PFRR Overview

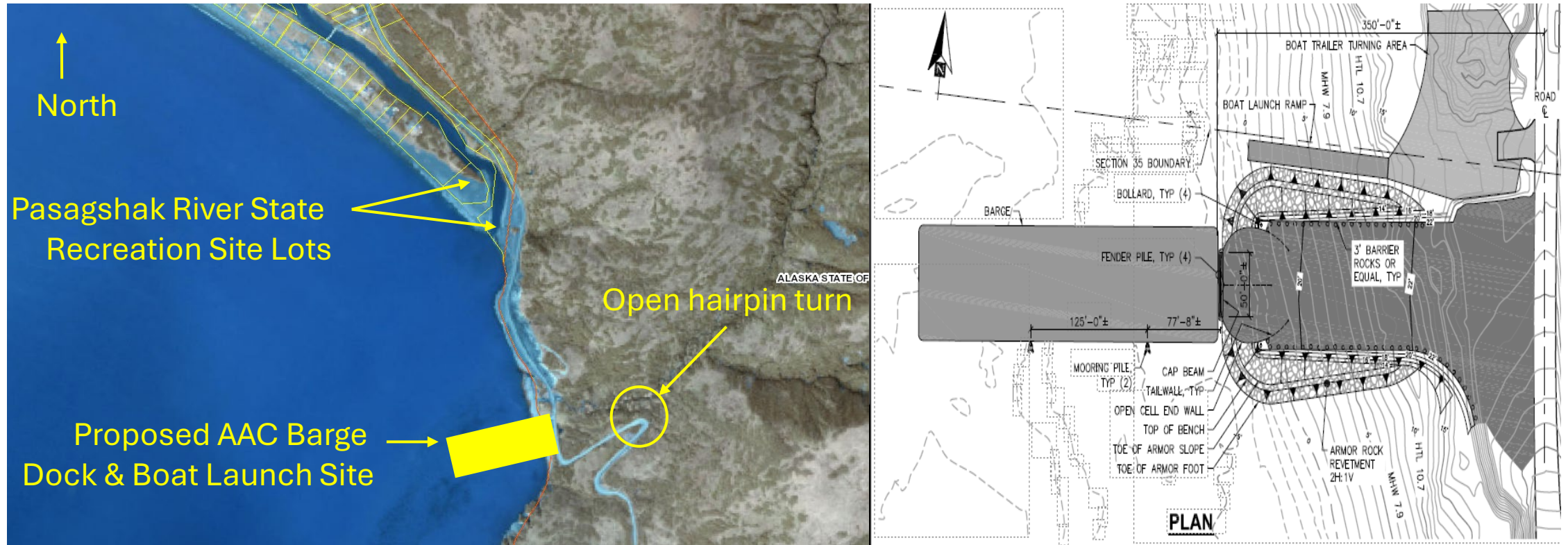


- Established rocket operations by NASA
- Corridors to the Arctic Ocean
- Down range science support
- FAA spaceport licensing underway by AAC
- Recovery services provided by AAC
- State of the art support facilities
 - Range Control Center
 - GI Machine shop
 - GI Electronics shop
 - GI space science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



Instrumented Hypersonic Range (over land) possible with funding after FAA License

PSCA Barge Landing/Road Improvement



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