

NM Spaceport Authority Status

For Interim Legislative Subcommittees

Scott McLaughlin | Executive Director

Dr. Francisco Pallares | Dir. of Business Development

Last update Thursday, September 5, 2024



THE SPACE TO BE...

OUTLINE

- Activity Review
- Capital Projects
- NMSA Budget
- Business Development

ACTIVITY REVIEW



RECENT AND PLANNED ACTIVITY

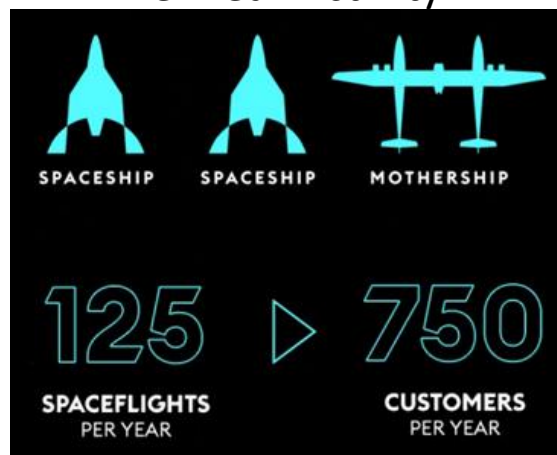
- **Virgin Galactic** flew June 8; pause in flights for Delta class spaceships
- Continued **STEM tours** and classroom visits
- Continued **small UAV** testing
- **Electric car** company testing continued
- **Commercial photoshoot** and movie shoot site visits
- In final review for on **Master Plan** project
- High Altitude Platform System (**HAPS**) UAV testing; 2 HAPS in air at same time
- **USAF Thunderbirds** returning
- **Cellular telephone tower** complete, but waiting for carriers to install
- Continuing to work with **NewSpace Nexus, NM Space Valley, Borderplex Alliance**, and others for building aerospace ecosystem
- Implementing **Computerized Maintenance Management Software (CMMS)** for entire site
- **Vertical Launch Rail** complete
- **GTS Roof Design RFP** is ongoing
- Had meeting with **Regional Spaceport District (RSD)**
- **STARC Building** final design will start soon
- **Reverse Osmosis** system construction
- Significant **Capital Improvement** activity
- Had **Open House**, Sep. 8
- Starting FY23 **Economic Impact Study**

VIRGIN GALACTIC STATUS

- Last update from 2024 Q2 earnings released August 7, 2024, see <https://investors.virgingalactic.com/events-and-presentations>
- Seven spaceflights occurred in last 12 months
- The two new **Delta Spaceships** will undergo tests/certification and then are scheduled to begin operations **mid-2025 and 2026**
- **Business Model** video: <https://tinyurl.com/2dacz8cr>



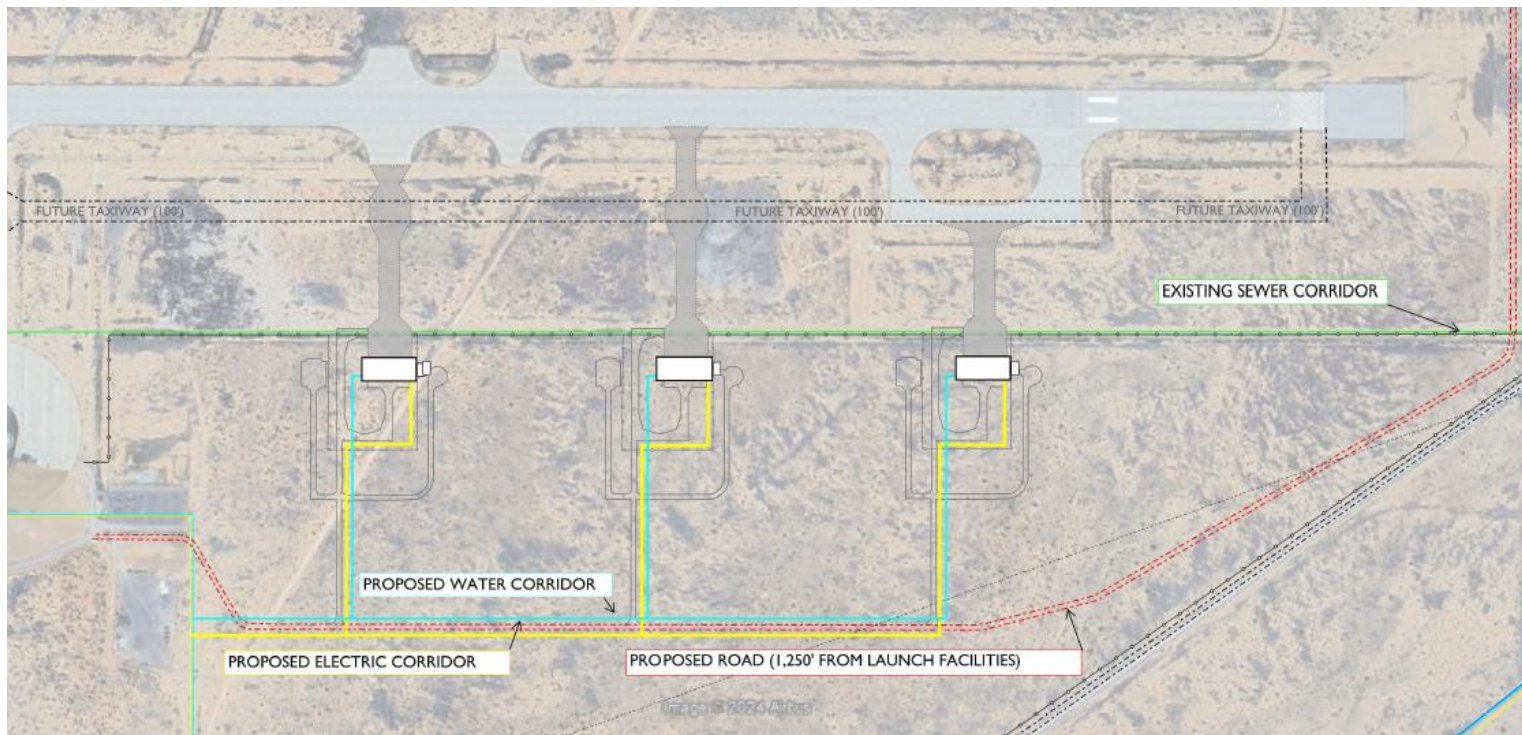
Per Year Activity



Will be significant visitors and economic impact.

VIRGIN GALACTIC OPERATIONS & EXPANSION AT SPA

- VG and NMSA signed Letter of Intent (LOI) in late March for expansion at SpA
- At their expense, VG will lease additional acreage and build one **launch hangar** for the carrier aircraft and prelaunch operations
- Includes room for total 2 additional (future) launch hangars



AEROVIRONMENT HAPS FLIGHT, JUNE 2024



FOURTH YEAR FOR USAF THUNDERBIRDS (2025)



afthunderbirds • [Follow](#)



afthunderbirds POV: you practicing over the desert Mexico 🚀

As we wrap up our first post-winter training at @spaceport.america, we're our flying, maintenance, ground skills for the upcoming season!

We hope you enjoy these our first photo chase of t



10,577 likes

January 18

From Instagram

LOW-POWER FM RADIO COMPLETE



CELL TOWER



- Tower is installed
- Awaiting final electrical system installation
- Do not have schedule from owner yet on cell providers

2024 SPACEPORT AMERICA CUP

- 2024 was the largest to date (6,212 participating, with 1,808 in NM)
- NMSU, UTEP, and NM Tech all participated; UNM won the Chile Cup
- 17 countries, 38 states, 133k views on YouTube stream, 120 rocket flights
- PR/earned media value of \$4.84 million, ad value of \$1.6 million



SPACEPORT AMERICA CUP SUPPORTERS



THANK YOU TO ALL OUR SUPPORTERS



CAPITAL PROJECTS UPDATE



REGIONAL SPACEPORT DISTRICT (RSD)



- RSD had Special Meeting on July 11
- Voted to release the below funds

<u>PROJECT NUMBER</u>	<u>DESCRIPTION</u>	<u>AMOUNT</u>	<u>EXPENDED / ENCUMBERED AMOUNT</u>	<u>AVAILABLE BALANCE</u>
23-C07	STARC	\$8,000,000.00		\$8,000,000.00
24-C18	HLA S. Access Road & Utilities Expansion	\$2,500,000.00		\$2,500,000.00
24-C21	HLA NE. Road & Utilities Expansion	\$3,400,000.00		\$3,400,000.00
<u>TOTAL:</u>		<u>\$13,900,000.00</u>	<u>\$0.00</u>	<u>\$13,900,000.00</u>

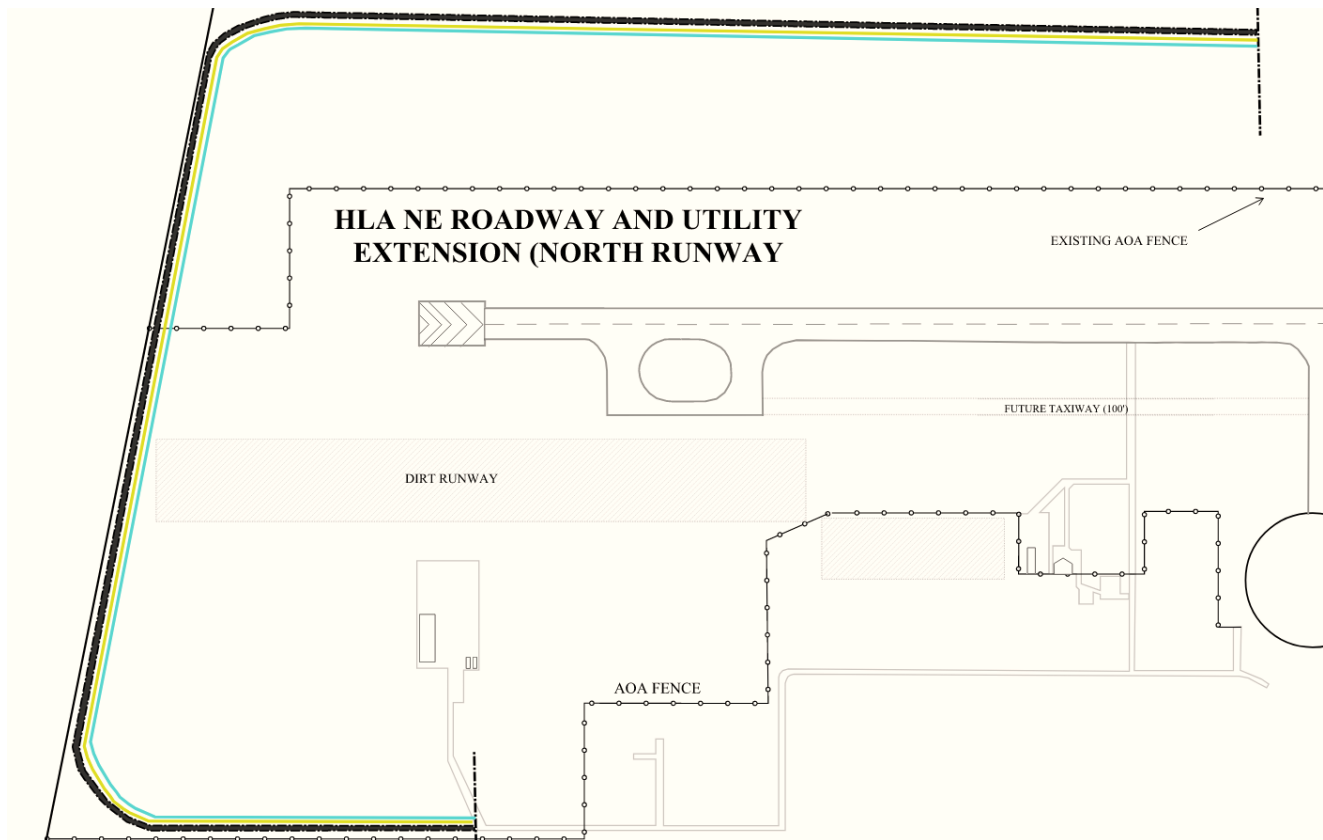
STARC BUILDING

- Spaceport Technology And Reception Center
- Funded at \$18M; requesting additional \$4M in ICIP for increased building construction costs
- Provides much needed Operations, IT, Security, and visitor areas



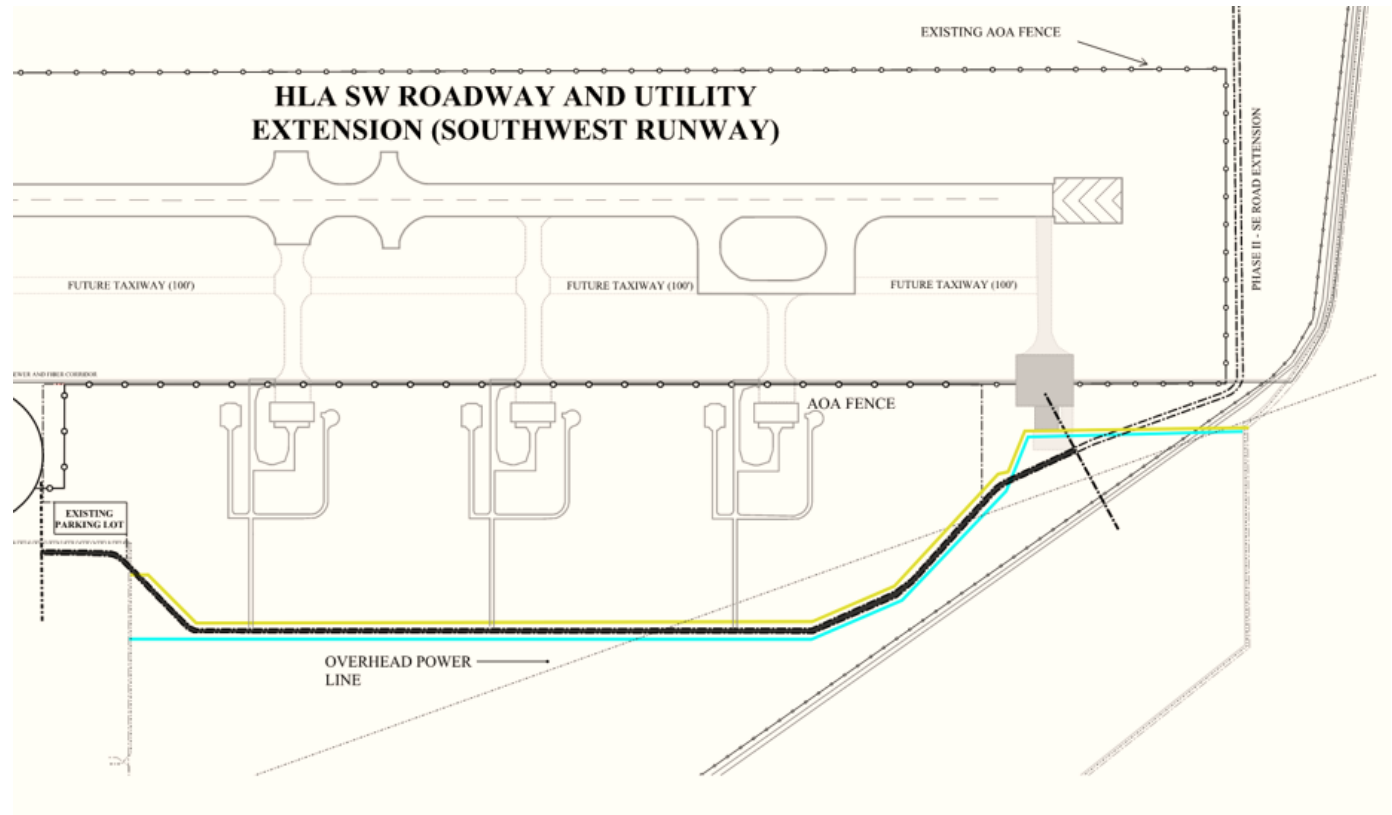
HLA NE ROADWAY AND UTILITY EXTENSION

- Road and utilities around northern end of runway



HLA NE ROADWAY AND UTILITY EXTENSION

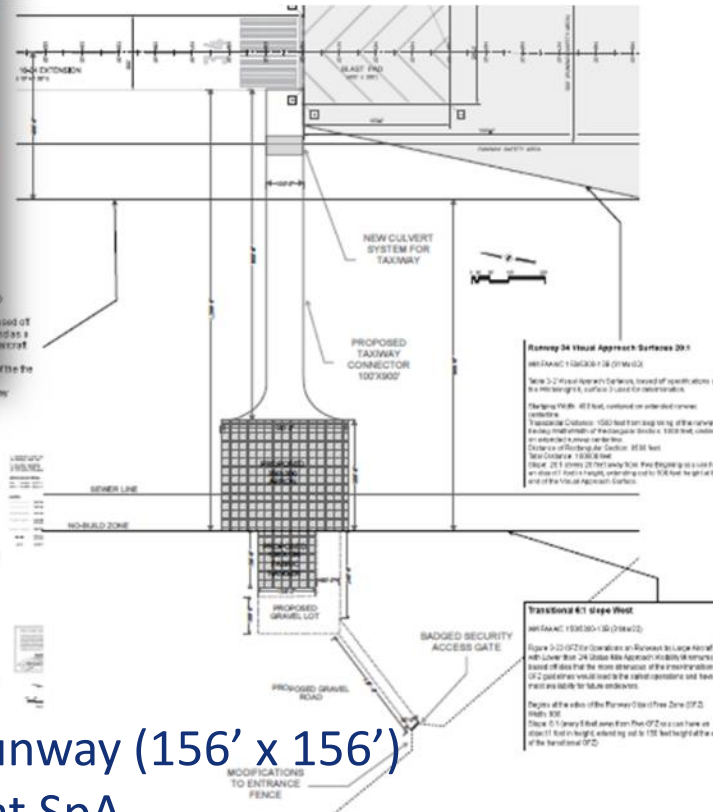
- Road and utilities around southern end of runway



HLA NEW HANGAR FACILITY



FAH: 100 feet centered on the runway centerline



- Being built at southern end of Runway (156' x 156')
- Will allow additional customers at SpA
- Current hangar (90'x 90') is leased 90% of the time
- Funded at \$10M

ACTIVE PROJECTS

- Making good progress on all projects
- Will likely need to add additional project manager in future

Legend
Planning
RFP/Procurement
A/E
Construction
Close-Out

ACTIVE PROJECTS			FY24		FY25			
PROJECT	AMOUNT	NOTES	Q3	Q4	Q1	Q2	Q3	Q4
VLA Drainage Study	\$64,837.50	Conceptual Design/Estimate						
Public Viewing Lot & Replica Relocate	\$513,435.73	Construction Begins Mid Aug						
HLA SW Access Road (Electrical Utilities)	\$345,642.96	60% CD/ Procurement Of Materials						
HLA S. Access Road and Water Utilities Extension	\$2,197,203.94	Design Underway						
GTS Roof Design - Architecture and Engineering	\$200,000.00	RFP In Progress						
HLA N/NE Road and Utility Improvements	\$3,400,000.00	Project Development						
Wireless Network Core Phase 2	\$350,000.00	Project Development						
Fabric Hangar/Payload Facility (156X156') Including Apron	\$8,920,351.87	90% Design Development End Aug						
STARC Building Project	\$16,469,681.19	RFP in Progress						
Facility Water Treatment Project (RO System)	\$1,184,800.00	Under Construction						
Taxiway Design & Drainage Project For Apron	\$1,999,720.17	Awaiting PO						
ACTIVE PROJECTS TOTAL	\$24,442,979.84							

PROJECTS IN PLANNING (UNFUNDED)

NO.	PROJECT	AMOUNT	NOTES
1	Infrastructure, Maint. & Runway Improve & Upgrade	\$4,500,000.00	Design + Construction
2	Leasable Facilities & Premanufactured Structures	\$1,450,000.00	Design + Construction
3	Spaceport Taxiway and Ancillary Infrastructure	\$11,500,000.00	Design + Construction
4	VLA Access Road (VLA to HLA)	\$3,200,000.00	Design + Construction
5	Fenceline Rd. Re-Construction	\$1,800,000.00	Construction Only
6	Main Entrance Improve Re-construction	\$1,600,000.00	Design + Construction
7	Upham/Lewis Rd. Re-Construction	\$1,900,000.00	Construction Only
8	Vehicle Payload & Rocket Operations Facility	\$1,000,000.00	A/E Services Only
9	Vertical Launch Area - LC4 Connector Road	\$1,000,000.00	Design + Construction
10	Aircraft & Vehicle Operations Facility	\$370,000.00	A/E Services Only
11	HLA SE Roadway and Utility Extension	\$4,500,000.00	Design + Construction
12	VLA - New well & Water Infrastructure	\$4,000,000.00	Design + Construction
13	Site Fire alarm and Comms Upgrades	\$1,000,000.00	Design + Construction
14	SOC Improvements Phase II	\$500,000.00	Design + Construction
15	NMSA Site Administration Building	\$8,000,000.00	Design + Construction
16	Launch Test Facilities - Vertical Launch Area	\$3,000,000.00	Design + Construction
17	AMU Hangar Facility Project	\$40,000,000.00	Design + Construction
	PLANNED PROJECT TOTAL	\$89,320,000.00	

NMSA BUDGET



BUDGET NOTES

- For FY25, starting Sep. 16, 2024, Virgin Galactic **User Fees** will be reduced from \$188,888 to \$50,000. This will *reduce* projected customer revenue to NMSA by \$1.344M. (Note that VG **Lease Payments** will continue as normal)
- NMSA is requesting **\$675k supplemental** to cover one-half of the reduced User Fee. The rest will be covered by our Fund Balance.
- FY26 General Fund request includes a **3% escalation** increase over FY25.
- FY26 request includes one additional employee to be “**STEM and Workforce Coordinator**”.

NMSA BUDGET (AS OF 8/20/2024)

(in thousands)	FY24 Actual	FY25 Budgeted	FY25 Actual	FY25 Projected	FY26 Request	Comments
Operating Rev.	\$7,782	\$9,061	\$740	\$6,970	\$8,147	Customer fees, leases, utilities, fuel, etc.
General Fund	4,247	4,139	675	4,195	4,222	GF Appropriation & salaries increase
Revenue Total	12,029	13,200	1,415	11,165	12,369	
200 Personal	3,189	3,974	355	3,877	3,838	
300 Contract	4,982	5,865	349	6,202	6,036	
400 Other Costs	2,524	3,361	135	2,502	2,495	
Expense Total	10,695	13,200	839	12,581	12,369	
Fund Transfer	0	0	0	1,416 ¹	0	
Net Result	\$1,334	\$0	\$576	\$0	\$0	
Footnotes:						
1. - FY25 Fund Balance transfer due to VG decreased User Fees.						
2 - FY26 Budget is unapproved						

BUSINESS DEVELOPMENT



BUSINESS DEVELOPMENT

- Negotiations for a new **solar-powered data center**, expected to enhance energy efficiency and attract high-tech tenants.
- Ongoing testing for a new **drone air glider** designed for agricultural applications,
- Plans for a **satellite communication ground station**, enhancing connectivity and positioning the Spaceport as a hub for space-related technologies.
- Continuing work on **FAA Orbital Reentry License**
- Continue work with **Commercial Spaceflight Federation** (CSF) for federal grants for spaceports
- Site visits by companies for business
- Working with **horizontal launch** developer
- Will attend **SpaceCom** in Florida in January
- Will attend **Space Symposium** in Colorado next year
- Attended **UAV** conference in April
- Working on **Inland Orbital Launch** promotion – which is gaining significant traction

RECENT EXAMPLES OF BD EFFORTS



GSA Capitol Hill Summit on Spaceports



Precision A.I. Air Glider



ASA National Convention 2024



Open House

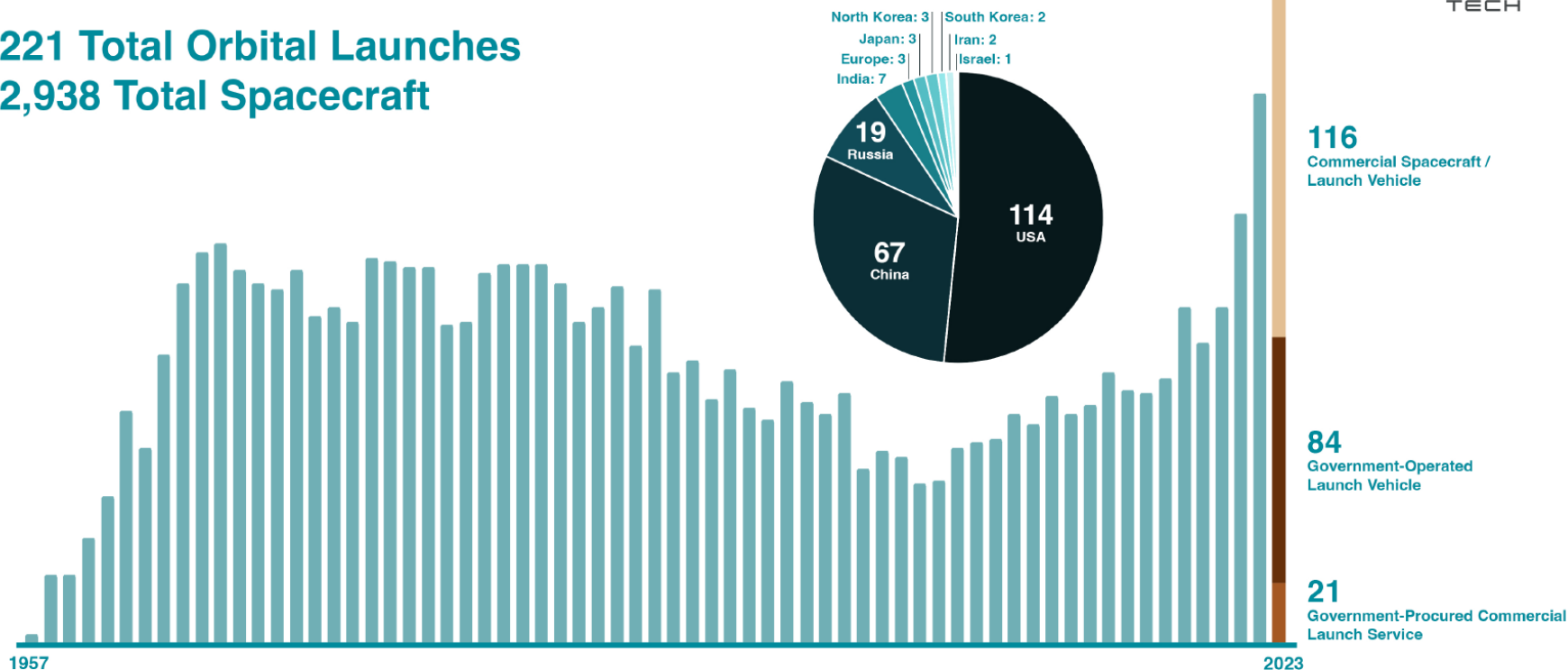
ORBITAL REENTRY LICENSE

- Submitting to the FAA in September 2024, the license is expected in early 2025 (our FAA Launch Site Operator license already supports vertical and horizontal launch – suborbital or orbital)
- An orbital reentry can occur on our 12,000-ft long, 200-ft wide runway or other parts of the Spaceport
- A reentry license will enable Spaceport America to accommodate various reentry vehicles, including crewed, uncrewed, and reusable spacecraft while encouraging facilities for recovery and refurbishment.



2023 Launch Year in Review

221 Total Orbital Launches
2,938 Total Spacecraft



Commercial Spacecraft/Launch Vehicle: Primary spacecraft and launch vehicle are commercially owned/operated (including non-governmental organizations)
Government-Operated Launch Vehicle: Government owned/operated launch vehicle
Government-Procured Commercial Launch Service: Owner/operator of primary spacecraft is a government entity; government has procured launch from a commercial launch service provider

Counts include unsuccessful launches. Launches are attributed to home country of launch provider, not launch site.

OPPORTUNITY AND COMPETITION



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The next space race starts at our spaceports

Bryce Kennedy and Greg Autry May 1, 2023

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A view of part of the Caribbean taken from the International Space Station. (credit: NASA)

A case for space in the Caribbean: a historic and strategic perspective

by *Kaylon J. Paterson*
Monday, June 12, 2023

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The dawn of the new space economy has brought with it ample opportunity for the private sector to participate in what was originally a government-dominated race for space supremacy. Where large nations—mainly the U.S., Russia, and the European

SPACE FOR KENTUCKY

Bringing the Space Economy to Kentucky

SPACEFORKENTUCKY.COM

Houston Spaceport Reaches for the Stars with Transformative Expansion Project

Published Feb 23, 2024 by Hallea Schultz

With three new cutting-edge anchor tenant facilities and its second phase of development underway, the Houston Spaceport has undergone a full transformation since the city first vowed to reshape Ellington Airport into an aerospace hub in 2015.

In 2018, the Houston City Council approved nearly \$20 million in funding for infrastructure development at the Spaceport, marking the beginning of a

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Jeff Foust May 19, 2023

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Governor Kevin Stitt Announces Hundreds of Foreign Investment Jobs at Oklahoma Air & Space Port in Burns Flat



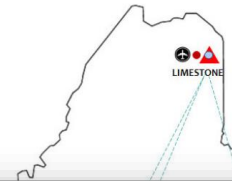
Governor Abbott Launches Texas Space Commission

March 26, 2024 | Austin, Texas | Press Release

Governor Greg Abbott today launched the Texas Space Commission, announced the inaugural members of the Texas Space Commission Directors and the Texas Aerospace Research and Development (TARSEC) Executive Committee at NASA's Johnson Space Center. The Texas Space Commission will cement Texas' position as a leader in the space industry and will secure its future in space exploration.

MAINE SPACE COMPLEX

The **Maine Space Complex** will be geographically distributed, benefiting multiple counties throughout the State, as geographically distributed capabilities offer the best opportunity to align with the market demand and facilitate the space offerings.



- ▲ Proposed Maine Space Complex Site
- ↓ Proposed Vertical Launch Site
Polar/SSO Orbit Route
- ⊕ Proposed Horizontal Launch Site
- Proposed Data and Analytics Center
- Proposed Launch Telemetry, Tracking and Control

Congress of the United States Washington, DC 20515

March 15, 2024

Governor Gavin Newsom
1021 O Street, Suite 9000
Sacramento, CA 95814

Dear Governor Newsom,

Thank you for encouraging and supporting the completion of a better time.

FEATURED NEWS

03.05.2024

Florida Legislature Expands Spaceport System, Creates Optionality for Space Florida

SPACE FLORIDA



SCIENCE | GLOBAL ISSUES

Taking on SpaceX: Why Germany is building its own spaceport

Alexander Freund

Published 10/21/2023 | Last updated 10/23/2023

Private companies like SpaceX are taking on established space agencies. Germany is hoping to shore up its position by opening a spaceport on the North Sea.



Home Local Leaders Pushing Efforts to Get a Spaceport in Yuma County, Arizona

Local Leaders Pushing Efforts To Get A Spaceport In Yuma County, Arizona

EXCLUSIVES MEDIA James Dargan • February 7, 2023

Trillion-dollar Opportunity

Tourism Boost

The climate around Yuma, Arizona is known to be one of the driest, sunniest, and least humid on the North American continent—perfect for spaceflight. That could be one of the reasons local leaders in Yuma County are hoping to secure plans for a spaceport in the desert southwest, according to a report on News 11 Yuma.

EXPLORATION PARK, Fla.—March 5 2024 authority, released the following statement



Col. Alvin Drew Space Camp



2024 Open House



New Mexico 4-H State Conference Site Visit



- Email: scott.mclaughlin@spaceportamerica.com

THANK YOU
FOR YOUR TIME