

JSC Small Business Council Virtual Outreach Event

Bay Area Houston Regional Update

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Bay Area Houston Regional Update

- Houston Spaceport Progress & Activity
- Key Takeaways from 37th Annual Space Symposium, Colorado Springs, Colorado, April 4-8, 2022
- Game Changers Impacting Regional Growth

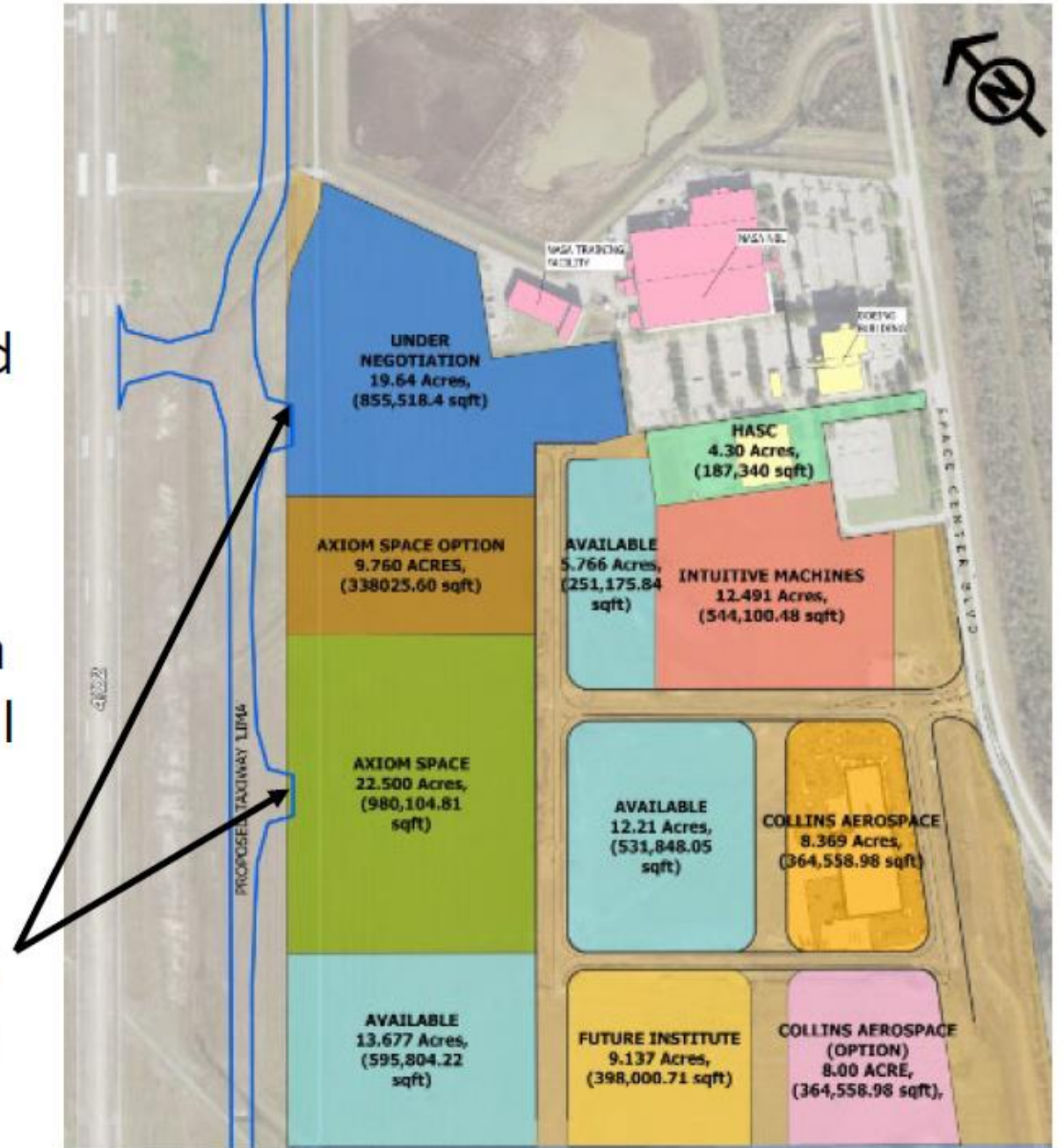


**HOUSTON
SPACEPORT**



Future state of Houston Spaceport based on planned developments by Axiom Space, Collins Aerospace, Intuitive Machines, along with a new EDGE Training Center in cooperation with area universities. These investments will total more than \$250 MM.

Future Taxiway Lima
With Access Points







Conceptual Design - Collins Aerospace



Collins Aerospace Expansion

116,000 sq ft facility for office space and manufacturing laboratory space, including 10,000 sq ft of accelerator space.

8 acres, 250 jobs!





Front and side of Collins



Occupancy June/July
2022!



Back side of Collins



Conceptual Design – Intuitive Machines

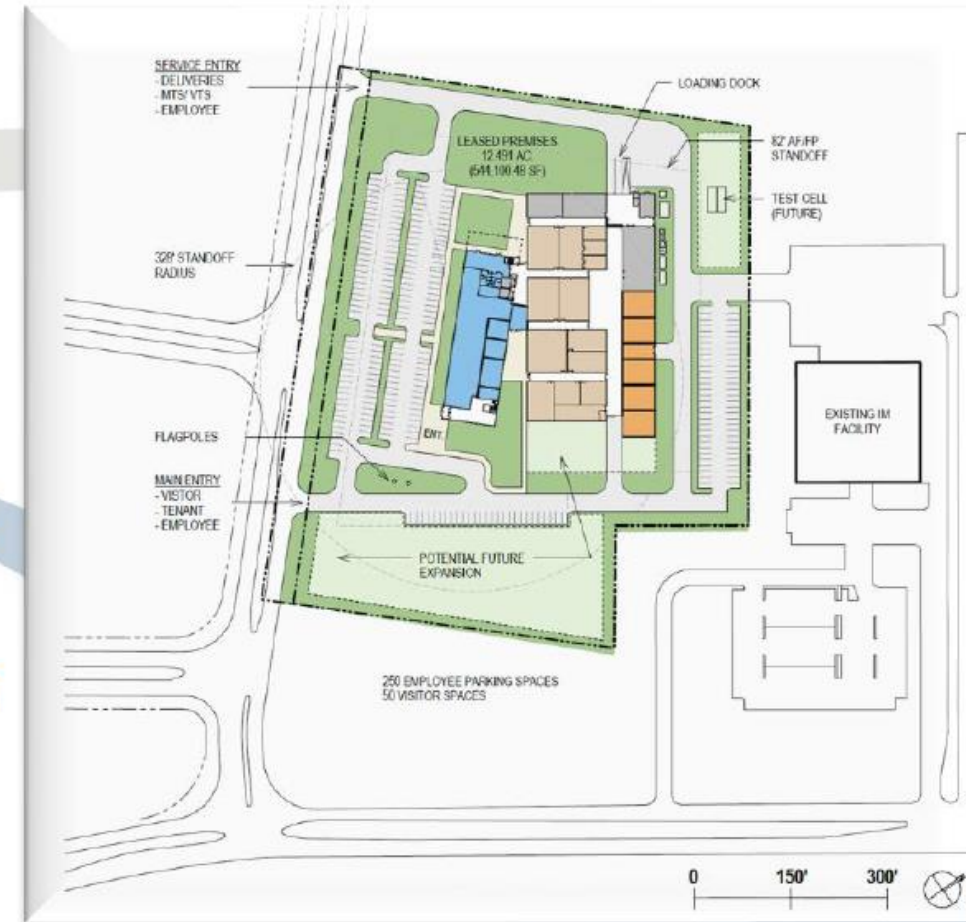




IM Project Overview



- ~12.5 acre plot at the Spaceport entrance
- 125,000 sf of office, production, assembly and test space
- High-efficiency, adaptable and scalable design
- Advanced loading dock and tiered storage
- Multi-level classified facility and network support
 - **First commercial use SCIF in Houston*
- Office tenant space for DoD units and innovation accelerators



A Globally recognized center of excellence for space innovation



Intuitive Machines

Large area being prepared
for Intuitive Machines
building to start
construction





IM building prep work





Spaceport Developments - 2021

Axiom Space

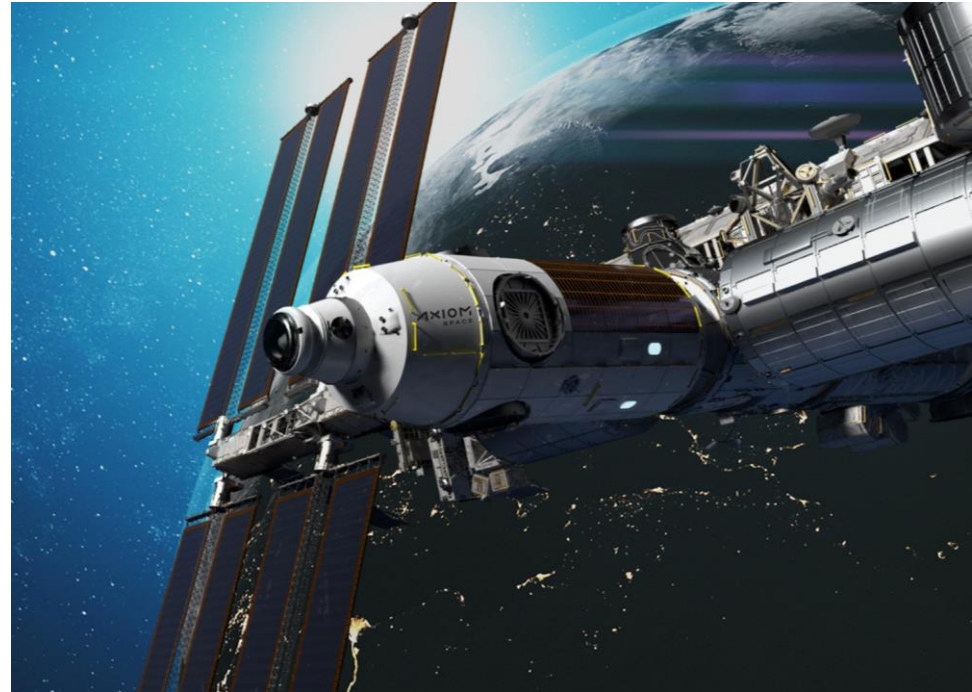
Huge Announcement!



Axiom Space, based in Houston, announces its plans to develop a 23-acre headquarters campus at the spaceport located at Ellington Airport. It will use this campus to train private astronauts and for production of its Axiom Station.

430,000 sq ft

800 New Jobs!





Axiom Facility

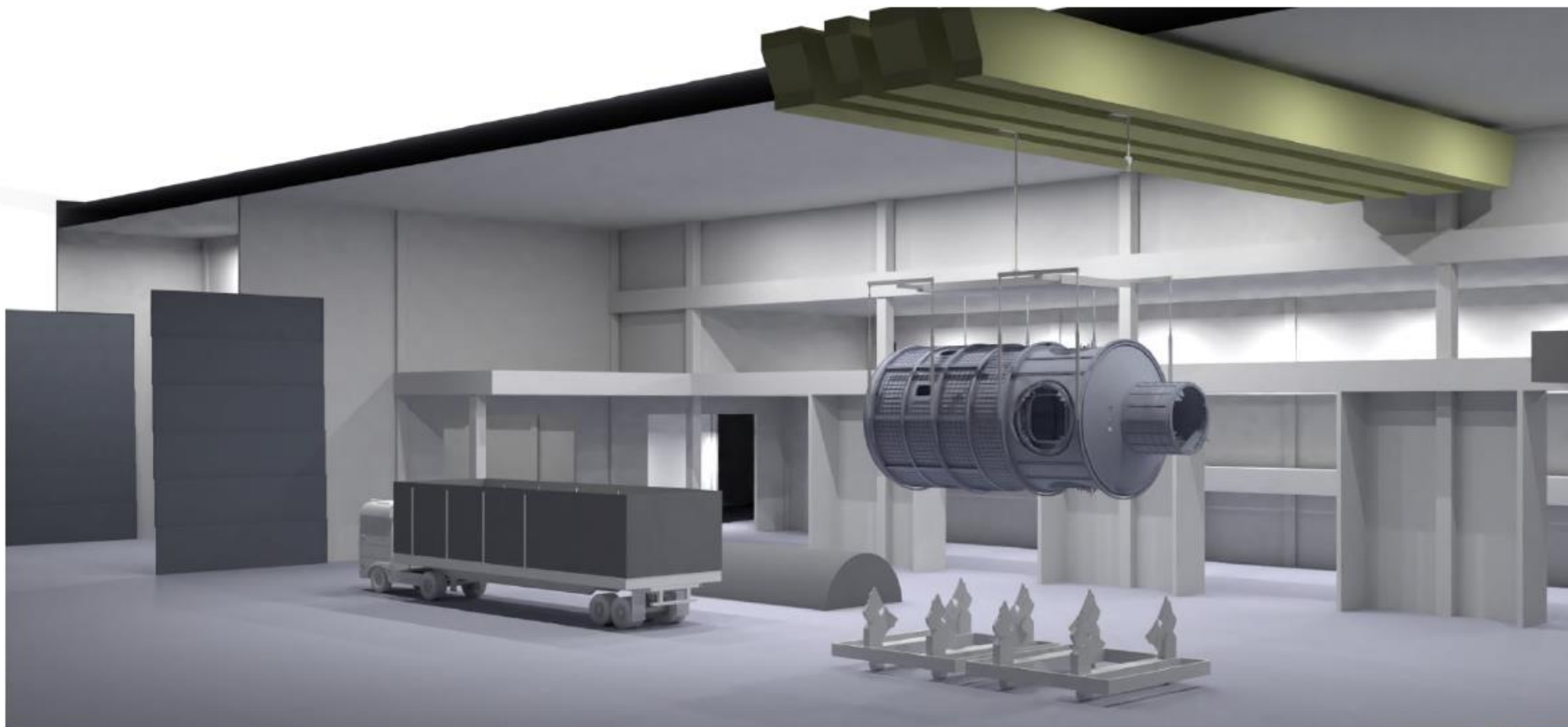


- Axiom will plan, design and construct an estimated 430,000 square feet of high bay, hangar, flight development and testing space, office space, astronaut facilities and parking on approximately 22.5 acres.
 - High-bay space will be designed to support the integration of space modules that will be flown to create the Axiom Station.
 - Axiom Station is comprised of Habitation, Research and Manufacturing, Observation and Power Thermal Modules. Each module is appx 45 ft in length.
 - Hangar will be designed to accommodate aircraft, such as private jets and T-38s for astronaut training purposes.
 - Axiom may conduct FAR Part 145 aircraft maintenance and storage for its commercial space customers arriving in their own aircraft.





Axiom Station Module Assembly High Bay





A successful relocation from California!

Venus is designing a next generation spaceplane that will travel 12 times faster than the speed of sound, climbing to an altitude of 150,000 feet using rocket engines before gliding safely back to Earth.

“Be Home Before Dinner!”

Venus Aerospace – 2nd round funding...\$20 million. From 3 to 40 employees in 1 year!



Houston-based Venus Aerospace has raised \$20 million – and is one step closer to providing one-hour global travel. *Photo courtesy of Venus Aerospace*

A year after raising \$3 million in seed funding, a Space City startup has closed its high-flying series A round to the tune of \$20 million.



Sale of Land to NASA



- NASA recently entered into a Purchase & Sale Agreement with the City of Houston to procure 3 tracts at EFD, for a total of 6.29 ac.
- NASA will construct a \$25 MM Aviation Logistics & Operations Facility (ALOF) on the west side of EFD along Brantley, adjacent to other NASA-owned facilities.

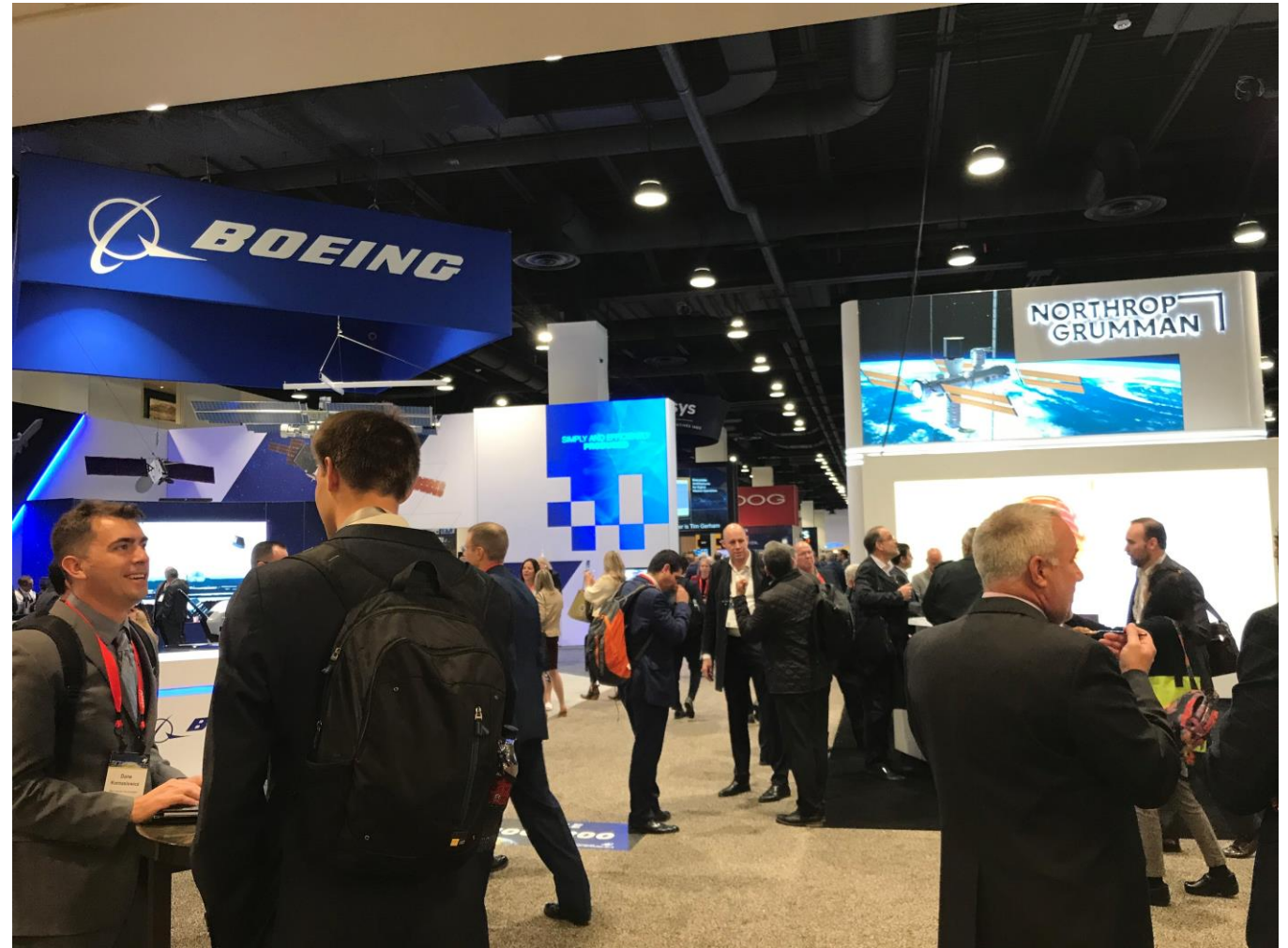


37th Annual



2022 Space Symposium – Key Takeaways

- Busy, busy, busy...A Record Setter – 17,000+ participants!
- ‘Super Bowl’ of Aerospace Conferences.
- 5th year for BAHEP participation with Houston Airport System promoting sites at the Houston Spaceport.



2022 Space Symposium – Key Takeaways

- Positive, Upbeat Feeling Throughout
 - Axiom Launching Friday
- Many Deals Announced
- Lots of Acquisition Money – SPAC activity high
- Many Partnerships (I.E., Orbital Reef)



2022 Space Symposium – Key Takeaways

- Need for trained workers and other Workforce Development issues dominate discussions.
- Satellite Activity Robust!
- Many suppliers in attendance – 3D Printing, Wiring and Electronic Components, Launch Services suppliers, Engineering, etc.
- Strong international and military presence.



Six Game Changers Impacting Regional Growth

- Continued strong population growth projected throughout Bay Area Houston.
- Continued business relocations into Texas & Houston from high cost east/west coast locales.
- Increasing NASA federal budget to \$26 billion in FY 2023 driving aerospace growth. Civil Space and Commercial Space benefitting.
- Oil price increase to \$100/bbl means growth for Houston Economy.
- Strong tourism recovery.
- Highway infrastructure investment bringing more growth.