SPACEPORT AMERICA OUR NATION'S GATEWAY TO SPACE!

Rural and Economic Development Committee

New Mexico Spaceport Authority update

Spaceport Update - Outline

- 1 chart Bottom line Upfront
- 2 chart NMSA activity status good news
- 5 charts The Commercial Space Industry NMSA's vision going forward
- 6 charts Sub-Orbital, Orbital, Transportation, Partners
- 2 charts STEM initiatives
- 3 charts Signature events
- 2 charts Financial charts

Dan Hicks CEO, Spaceport America



BOTTOM LINE UPFRONT

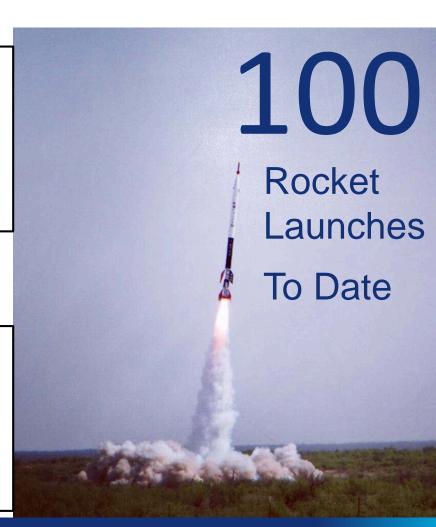


Three Facts

- Spaceport America is creating jobs!
- \$9.2M customer revenue to date!
- Commercial Space Industry continues to grow!

Two Requests

- Revert to prior year funding level
 \$375k (FY18) + \$625K = \$1M (~FY12)
- Support the Commercial Space
 Protection Act Legislation

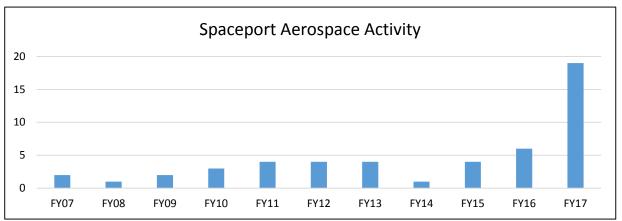


AEROSPACE ACTIVITY



- FY17 Aerospace activity breakdown
 - 14 Launches from VLA
 - 60 Launches during the inaugural Spaceport America Cup
 - 2 Launch system tests
 - 1 Flight mission from HLA
 - 2 Balloon missions

Spaceport activity over time





- New jobs created each year
- Estimated 100 new jobs in FY18

Estimated Avg 60k salary generates 6M in first-order economic stimulus in FY18

	<u>FY16</u>	<u>FY17</u>	<u>FY18</u>
Total	50	75	175
SA	18	18	20
VG	15	25	120
Contractors	20	32	35

U.S. COMMERCIAL SPACEPORTS

No launches

to date

Mid-Atlantic

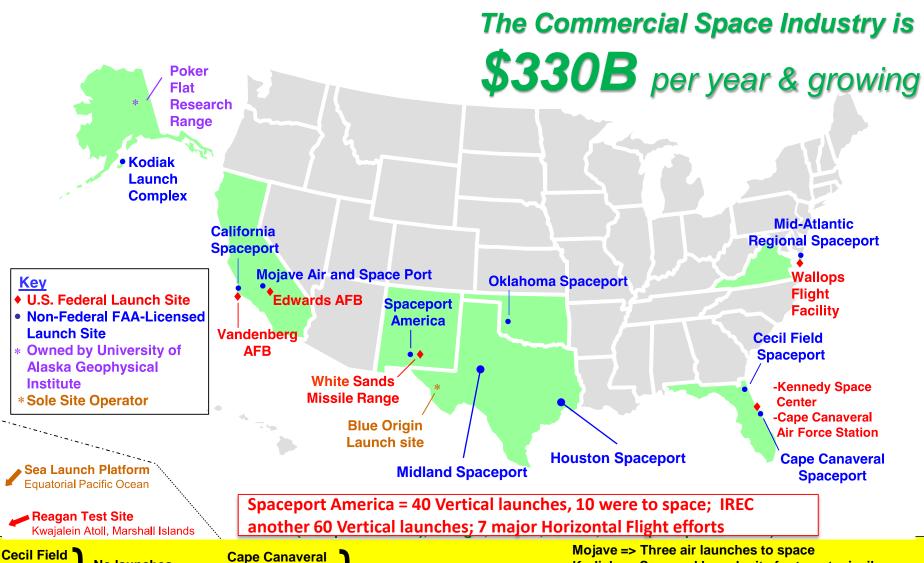
California

Houston

Midland

Oklahoma



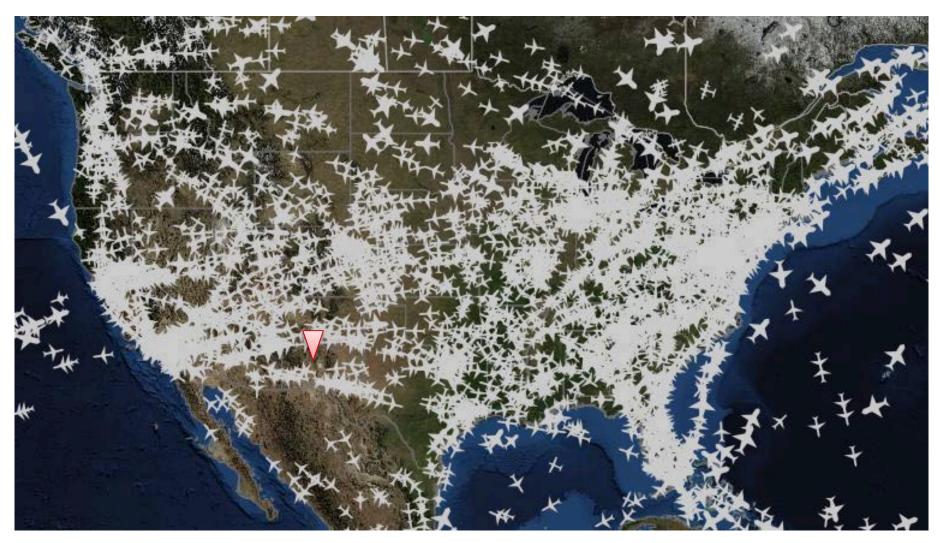


Large rocket,
Orbital focus

Mojave => Three air launches to space
Kodiak => Seasonal launch site for target missiles
Blue Origin => Single customer only
Poker Flat => Arctic research only

NATIONAL AIR TRAFFIC





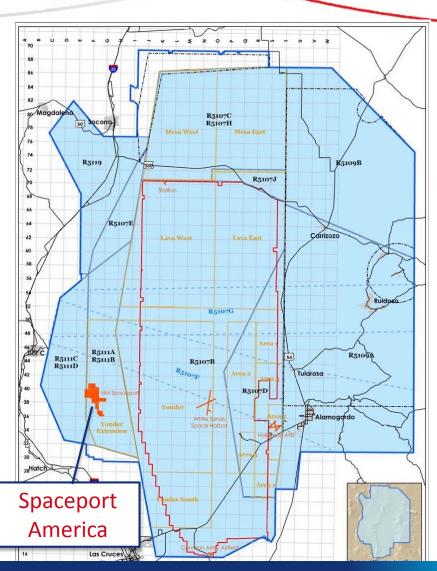


Spaceport America's strategic advantage = 6,000 sq. miles of restricted airspace in collaboration with U.S. Army White Sands Missile Range

SPACEPORT AMERICA IS A NATIONAL TREASURE



- WE ARE UNIQUELY LOCATED AND PROVIDE ROUTINE ACCESS TO SPACE THAT DOES NOT EXIST ANYWHERE ELSE IN THE COUNTRY!
- WSMR AND NMSA HAVE A STRONG PARTNERSHIP TO SUPPORT BOTH THE COMMERCIAL SPACE INDUSTRY AND OUR NATION'S NATIONAL SECURITY INTERESTS!
- THE R5111 & R5107 COMPLEX ARE SURFACE TO UNLIMITED



Access to Space - 24/7 through our WSMR partnership!

SPACEPORT AMERICA VALUE PROPOSITION



- 340+ DAYS OF SUNSHINE
- Launch Starts at Elevation of 4,600 ft above sea level
- No damage from salt air corrosion
- FIRST PURPOSE BUILT COMMERCIAL SPACEPORT
- Low population density
- REMOTE LOCATION AND 24/7 SECURITY OFFERS PRIVACY
- ACCESS TO 6,000 SQ MI OF RESTRICTED AIRSPACE

WE HEAR FROM OUR CUSTOMERS, "THERE IS NO OTHER PLACE LIKE SPACEPORT AMERICA FOR OUR OPERATIONS."

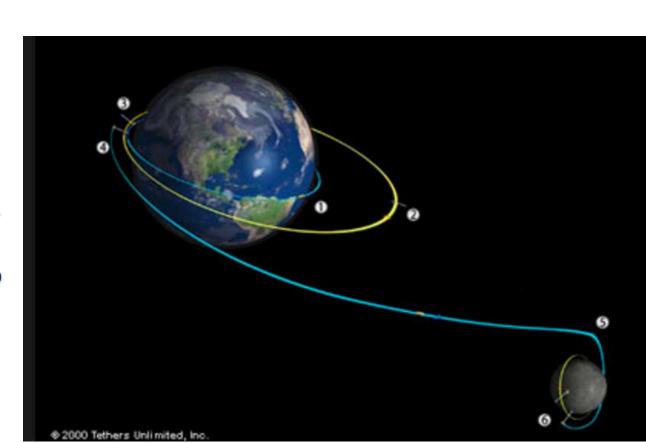
CURRENT & FUTURE GROWTH



- SUB-ORBITAL- FOCUS ON RESEARCH/ASTRONAUT EXPERIENCE We have three of the top four Sub-orbital Launch Operators as tenants!
- ORBITAL WITH THE RIGHT TECHNOLOGIES

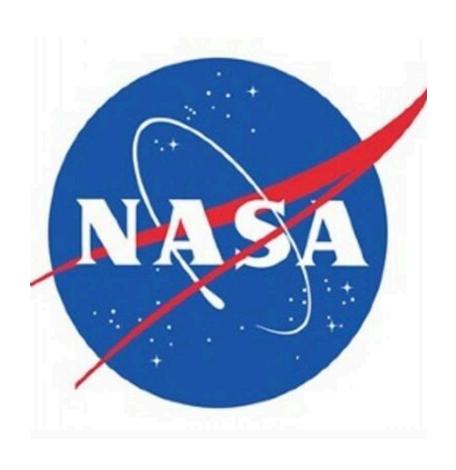
 Spaceplane, Single-Stage to Orbit, Returnable Booster, etc
- TRANSPORTATION HUB A FULL SERVICE SPACEPORT!

GOAL IS TO DEVELOP
PRIMARY INLAND
SPACEPORT TO SUPPORT
OUR NATIONS
COMMERCIAL, NASA AND
DOD INTERESTS



WE HAVE 3 OF THE TOP 4 SUB-ORBITAL LAUNCH PROVIDERS AS TENANTS











SOME EXPERIMENTS CAN'T TAKE PLACE HERE ON EARTH OR WOULD TAKE MUCH LONGER



It is going to take a lot of advances in life and material sciences to send humans to Mars by the 2030's...

Spaceport America is in an excellent position to support the micro-gravity research needed for the Commercial Space Industry and NASA's exploration efforts



THIS MICRO-GRAVITY RESEARCH IS IMPORTANT AS IT WILL LEAD TO MANY ADVANCES SUCH AS CANCER FIGHTING MEDICATIONS



Poorly differentiated follicular thyroid cells shortly before launch. The cells were then exposed to microgravity aboard the International Space Station for the Cellbox-Thyroid investigation.

PIPELINE2SPACE (SMALL SAT CONFERENCE)





HIGH VISIBILITY SPACE TESTING



Working with WSMR and Boeing on multiple drop tests of the new Crew Transportation Capsule for the International Space

First successful launch

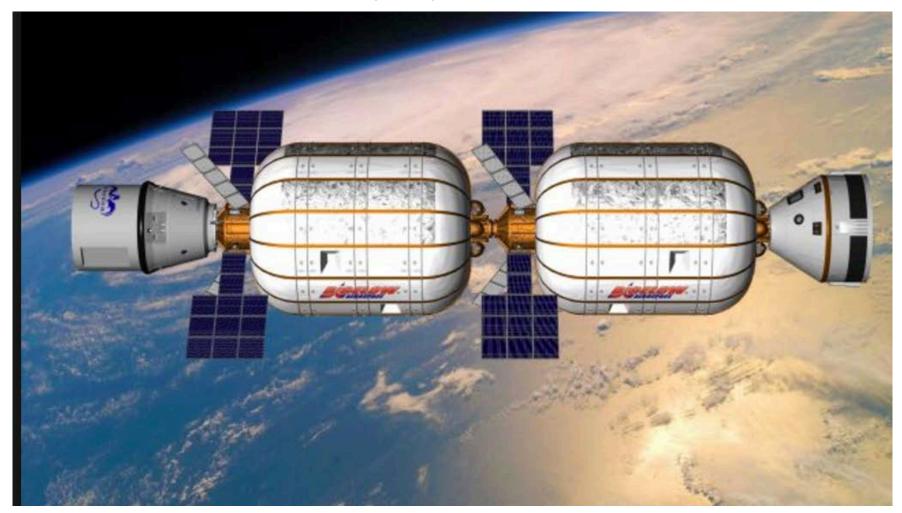




NEAR-MID TERM FOCUS



Launch of Low Earth Orbit (LEO) Satellites and habitats



NEAR-MID TERM FOCUS

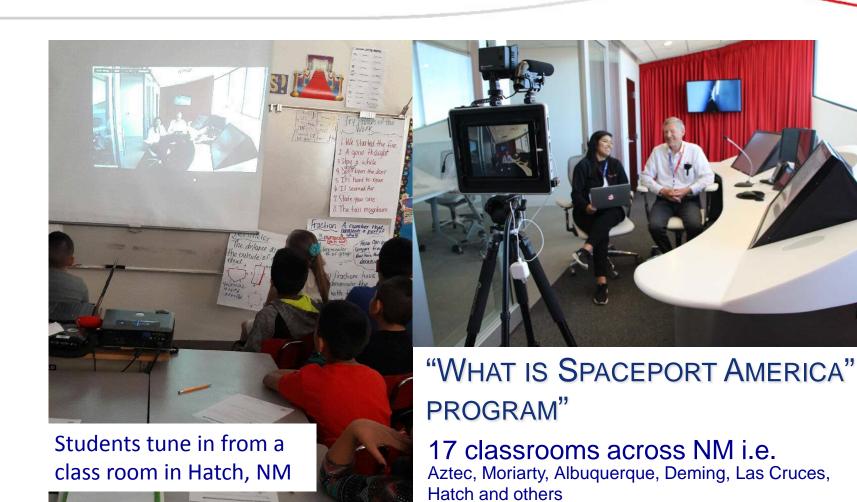


Point-to-Point transportation with spaceplanes



STEM: VIRTUAL FIELD TRIPS





FieldTripZoom is a Unique Educational Partnership to make Spaceport America STEM content available to educators across the world!

No cost to every school in New Mexico! Launched February 2017.

STEM: USC Launch March 2017







SPACEPORT AMERICA RELAY RACE



- April 8-9, 2017
- 22 running teams performing relay race (247 runners)
- El Paso, La Union, Gadsden, Chamberino, Vado, Mesquite, Mesilla, Las Cruces, Radium Springs, Rincon, Hatch, Salem, Garfield, Arrey, Williamsburg, Truth or Consequences, Spaceport America
- Community organization with local law enforcement







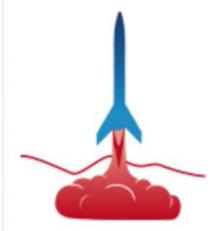
SPACEPORT AMERICA CUP



- June 19-24, 2017
- 60 student rocket launches
- 91 university teams from 12 countries on 6 continents
- 1,622 visitors on site
- 82% out-of-state visitors
- Event revenue of \$188,852

SA CUP SIZZLE REEL





SPACEPORT AMERICA® CUP

BUDGET SUMMARY



	Revenues	<u>FY18</u>	<u>FY19</u>
111	General Fund Transfers	375,900.00	1,000,000.00
130	Other Revenues	5,466,600.00	6,610,000.00
	Total	5,842,500.00	7,610,000.00

Expenses

200 Personnel	1,814,000.00	2,534,200.00
300 Services	2,285,700.00	2,883,900.00
400 Other Costs	1,742,800.00	2,191,900.00
Total	5,842,500.00	7,610,000.00

Requesting 30% budget increase for agency in FY19

Increased Airspace Management Rqmnts (VG flights, HAFB, FAA coord, etc) Increased Rocket Launches & Events Required Preventative maintenance

CAPITAL IMPROVEMENT PLAN



CAPITAL IMPROVEMENT PLAN				
Name	Description	Amount		
SA Facilities Upgrades	Major repairs and upgrades on existing facilities at Spaceport America to include electrical, HVAC, fire suppression, water, sewage, security, mission control and other building systems.	500,000		
Launch Vehicle Integration Facility	Construction for a new facility at Spaceport America for launch vehicle payload integration	20,000,000		
Fuel Farm Installation	Construction for new fuel farm installation to include planning, design, and construction of concrete foundation, fuel tanks, electrical, support vehicles, and other infrastructure.	5,000,000		
Spaceway Taxiway	Construction for improvements to the Spaceway at Spaceport America including taxiway infrastructure	20,000,000		
Vertical Launch Area (VLA)	Major repairs in the Vertical Launch Area at Spaceport America to include electrical,	500,000		

communications, security, launch

infrastructure/facility upgrades.

Improvements

Total cost:

\$46,000,000

