SPACEPORT AMERICA: WHERE WE OFFER THE WORLD AN INVITATION TO SPACE

Dec 7, 2012

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Executive Director
New Mexico Spaceport Authority



SPACEPORT AMERICA



where we offer the world an invitation to space



SPACEPORT AMERICA: ATTRIBUTES

Truth or

Consequences

~30 Miles

Spaceport

America

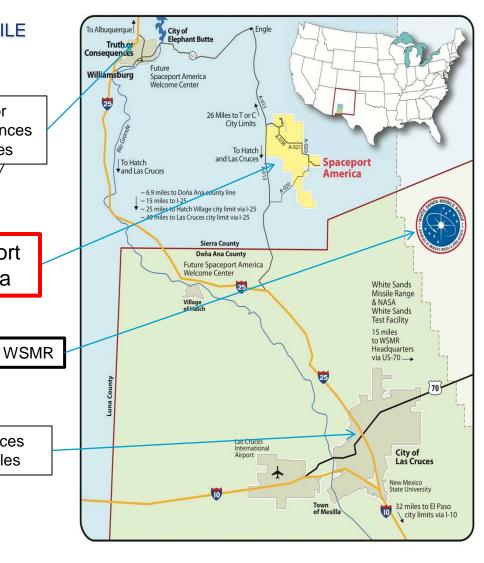
Las Cruces

~ 55 Miles



- CLOSE PROXIMITY TO WHITE SANDS MISSILE RANGE
 - Use of restricted airspace
- EASY ACCESS FROM I-25
- APPROX 18,000 ACRES
- Sparse population
- 4600 FT ABOVE SEA-LEVEL
 - Less fuel, more payload
- EXCELLENT YEAR-ROUND WEATHER
- OPERATIONS TAILORED TO CUSTOMER REQUIREMENTS

 SUB-ORBITAL & ORBITAL TRAJECTORIES POSSIBLE



SPACEPORT AMERICA



HORIZONTAL LAUNCH CUSTOMERS



VERTICAL LAUNCH CUSTOMERS



where the spirit to "innovate, create and inspire" thrives







TOURISTS

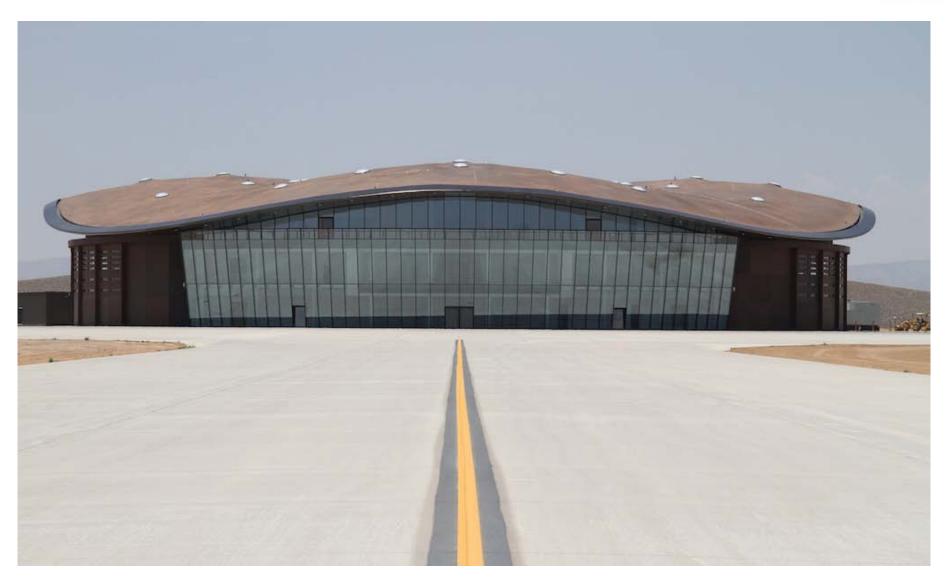
"VIRGIN GALACTIC GATEWAY TO SPACE"





GATEWAY EASTERN FAÇADE





GATEWAY AND SOC





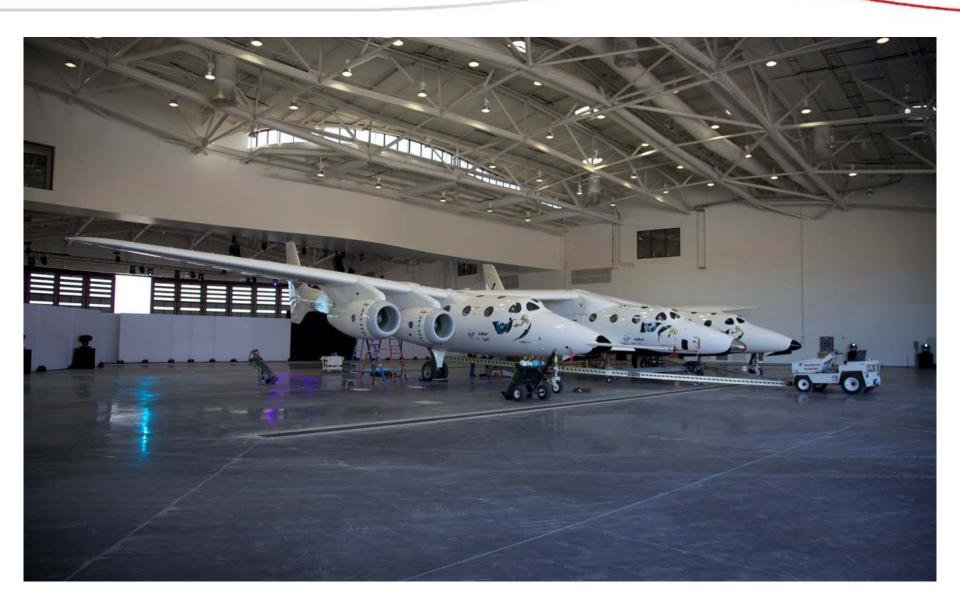
GATEWAY NORTHERN PROFILE





WK2/SS2 INSIDE GATEWAY





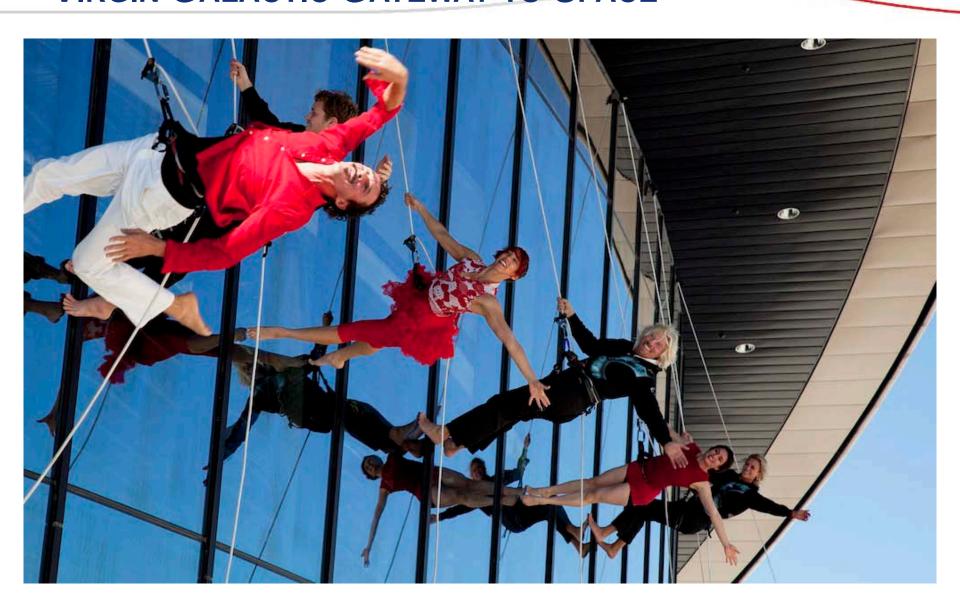
GOV. MARTINEZ AND BRANSON DEDICATE "VIRGIN GALACTIC GATEWAY TO SPACE"





PROJECT BANDALOOP PERFORMS ON THE "VIRGIN GALACTIC GATEWAY TO SPACE"





GATEWAY AT NIGHT





SPACEPORT OPERATIONS CENTER





COMMUNICATIONS TOWER





AUTOMATED WEATHER OBSERVING System





SPACEPORT UTILITY INFRASTRUCTURE





WASTEWATER TREATMENT PLANT



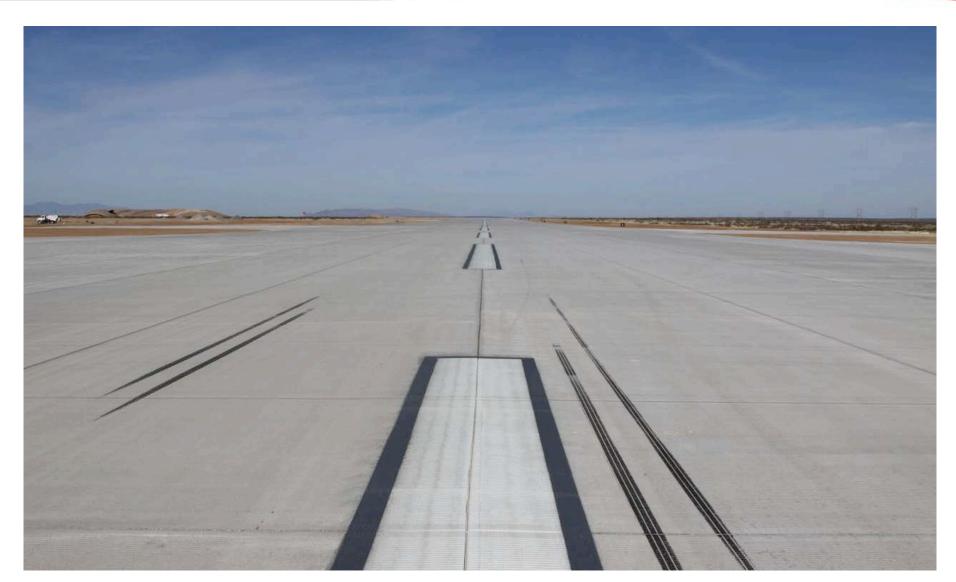
FUEL STORAGE DEPOT



1.3M GAL WATER STORAGE & BOOSTER STATION

SPACEWAY 16-34





SPACE OPERATIONS

VERTICAL LAUNCH ACTIVITY





UP AEROSPACE



VIEW FROM NEAR-SPACE ABOVE NM



ARMADILLO AEROSPACE



LUNAR LANDER PADS

UP AEROSPACE UPDATE



 NEXT LAUNCH SCHEDULED FOR MARCH, 2013

NASA Flight Opportunity Program launch

 Will be first under the program to reach space

Primary payloads will be NASAsponsored Will also carry some NM student payloads



ARMADILLO AEROSPACE UPDATE



 LAST LAUNCH HELD NOV 3, 2012

STIG-B vehicle

 Larger, higher performing variant of STIG-A

Second licensed launch ever at Spaceport America



VIRGIN GALACTIC UPDATE



- FLIGHT TEST PROGRAM PROGRESSING
 - 22 glide flights to date
 - Rocket motor testing continues
 - SS2 now in hangar for propellant tank installation
- ACCREDITED SALES AGENT FORUM HELD OCT 26-28



VISITOR EXPERIENCE STATUS

VISITOR EXPERIENCE OVERVIEW



VISITOR GOALS

- To be as close to space as possible without leaving the ground
- Participative, immersive, fun, yet educational activities

Business Goals

- Commercial success
- Maximize local economic development



WELCOME CENTER CONCEPT





APPROACH TO SPACEPORT AMERICA





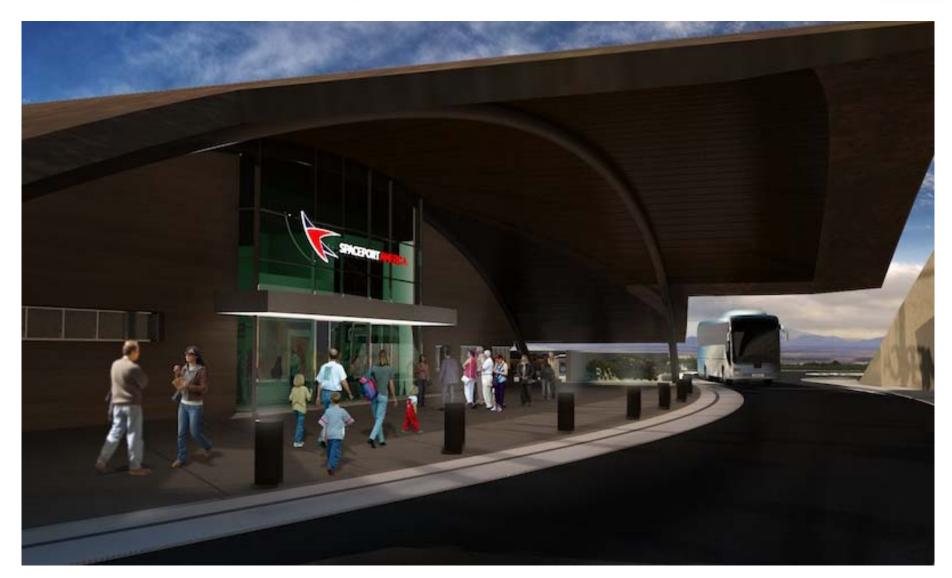
ENTRANCE & SECURITY FACILITY





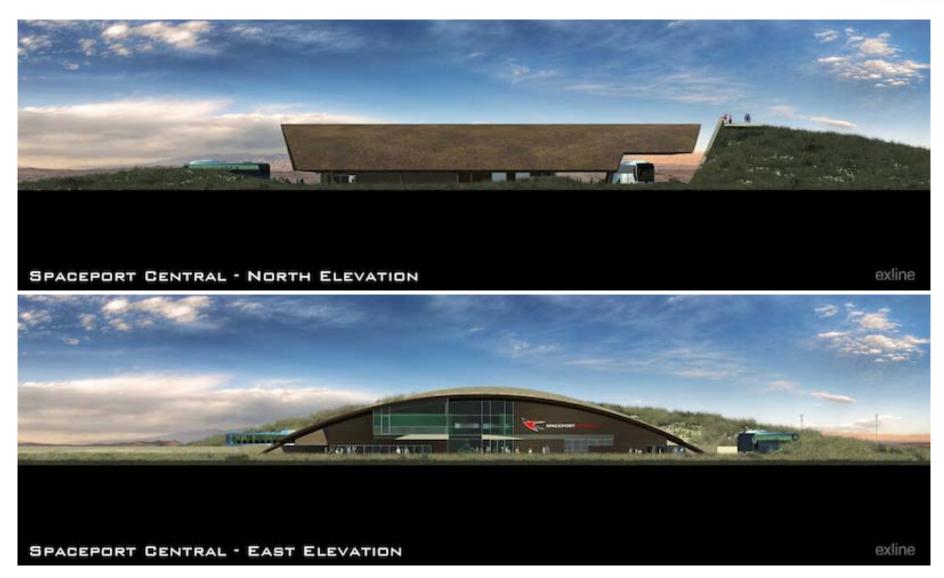
ON-SITE VISITOR CENTER CONCEPT





ON-SITE VISITOR CENTER ELEVATIONS





SPACEPORT CENTRAL ACTIVITIES





SPACEPORT CENTRAL ACTIVITIES





BUSINESS MODEL



- \$209M STATE FUNDED PROJECT
- SELF-SUSTAINING VIA REVENUE IN MID-2014
 Revenue from launches, tenant rent, and tourism
- As many as ~2000 jobs supported by 2016
- ~1100 JOBS CREATED THROUGH CONSTRUCTION TO DATE

SPACE FLIGHT INFORMED CONSENT

GROWTH IN U.S. COMMERCIAL SPACEPORTS



• TO DATE (9)

Spaceport America

Spaceport Florida

Mid-Atlantic Regional Spaceport

California Spaceport

Oklahoma Spaceport

Mojave Spaceport

Kodiak Launch Complex

Blue Origin Launch site

Cecil Field Spaceport

PROPOSED

Front Range Airport, Colorado

Midland Airport, Texas

Titusville Airport, Florida

South Texas Spaceport

Spaceport Alabama

Hawaii Spaceport

Wisconsin Spaceport

Spaceport Indiana

Spaceport Washington

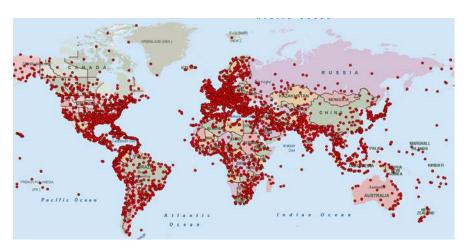
Chugwater Spaceport

Spaceport Georgia

U.S. Spaceports



TODAY



The Year 2112?

SPACE FLIGHT INFORMED CONSENT "WHAT IS IT?"



- A WAIVER THAT FULLY INFORMS PARTICIPANTS OF RISKS OF SPACEFLIGHT PRIOR TO FLYING
- PERTAINS ONLY TO SPACEFLIGHT PARTICIPANTS
- HOLDS HARMLESS SPACEFLIGHT COMPANIES IN CASES OTHER THAN GROSS NEGLIGENCE OR MAL INTENT

EXPANDED SPACE FLIGHT INFORMED CONSENT LEGISLATION



- NEW MEXICO SPACE FLIGHT INFORMED CONSENT ACT OF 2010
 Holds harmless operators, but not manufacturers or suppliers
 Contains sunset clause in 2018
 On par with then-legislation in FL
- TX, FL, VA, CO HAVE PASSED MORE ROBUST LEGISLATION IN 2011-2012

Holds harmless operators, manufacturers and suppliers No sunset clause

- NM MUST PASS SIMILAR ROBUST LEGISLATION TO BE COMPETITIVE
- Costs Taxpayers nothing!
- FAILED TO PASS IN 2011 AND 2012 MUST PASS IN 2013!

STATE COMPARISONS: SPACE FLIGHT INFORMED CONSENT



<u>State</u>	<u>Operators</u>	Mfg./Supply Chain	<u>Directors,</u> <u>Shareholders,</u> <u>Partners,</u> <u>Employees, etc.</u>	Sunset clause
CA	YES	NO	NO	NO
CO	YES	YES	NO	NO
FL	YES	YES	NO	NO
TX	YES	YES	YES	NO
VA	YES	YES	NO	NO
NM	YES	NO	NO	YES - 2018

PROPOSED 2013 LEGISLATION



<u>State</u>	<u>Operators</u>	Mfg./Supply Chain	<u>Directors,</u> <u>Shareholders,</u> <u>Partners,</u> <u>Employees, etc.</u>	Sunset clause
CA	YES	NO	NO	NO
CO	YES	YES	NO	NO
FL	YES	YES	NO	NO
TX	YES	YES	YES	NO
VA	YES	YES	NO	NO
NM	YES	YES	YES	NO

INDUSTRY UPDATES



- XCOR AEROSPACE TO MIDLAND, TX
 - \$12M in new payroll and capital investment expected over next 5 years
- XCOR AEROSPACE ALSO TO KSC, FL
 - 152 aerospace jobs expected over next 5 years
- ROCKETCRAFTERS INC. TO TITUSVILLE, FL
 - 1300 aerospace jobs expected by 2018
- SPACEX TO SOUTHERN TX
 - \$50M in annual salaries expected in Brownsville, TX
- TX GOVERNOR COURTING SPACE FIRMS
 - e.g. Armadillo Aerospace, SNC, NanoRacks, Celestis, SpaceX, etc.

FY13 LEGISLATIVE SESSION COMMITTEES (ANTICIPATED)



House

Business and Industry Judiciary

SENATE

Corporations and Transportation Judiciary

FLOOR VOTE

QUESTIONS?





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MONTHLY NEWSLETTER SIGN-UP IN THE FOOTER OF HOMEPAGE