

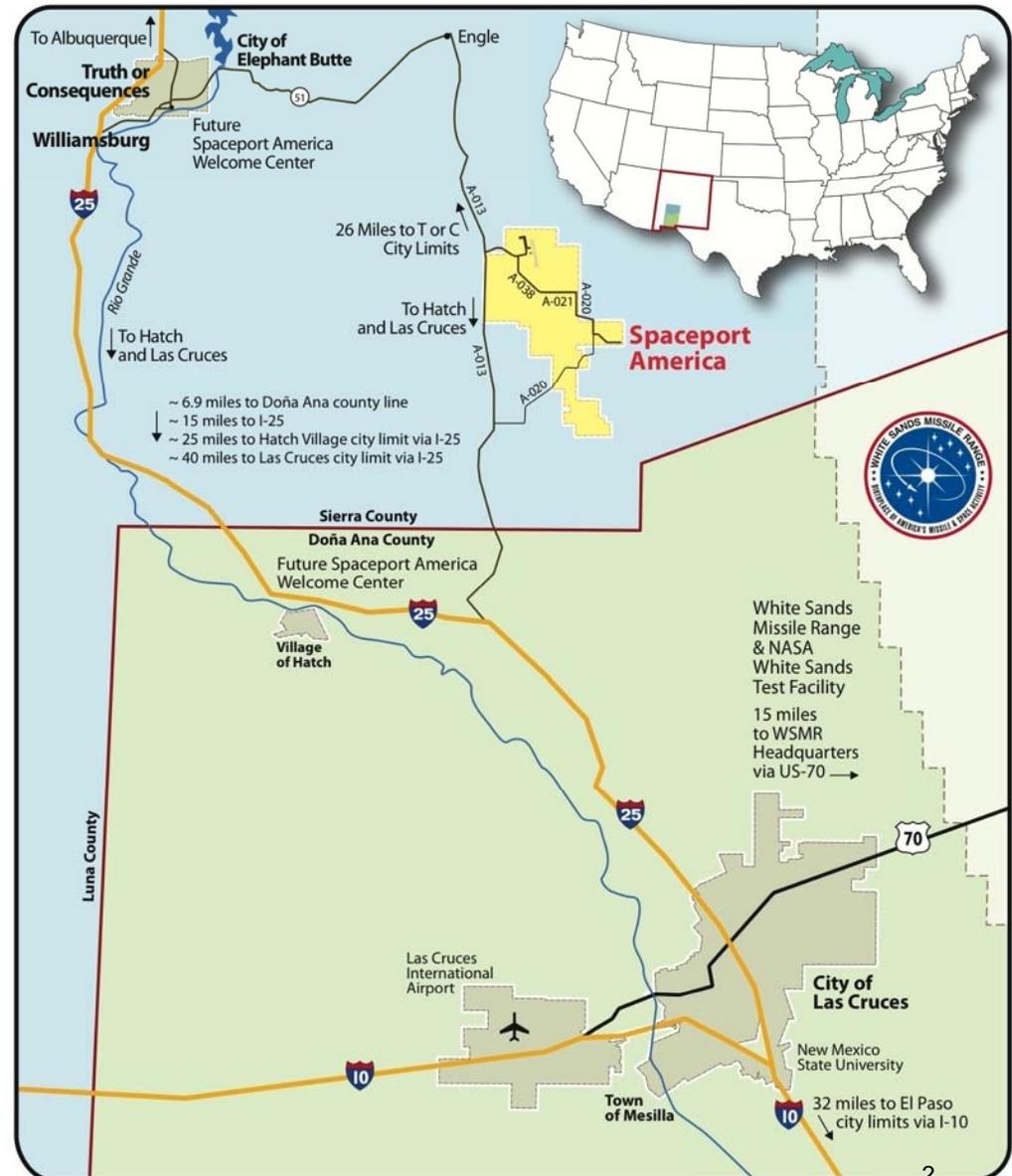
Science, Technology & Telecommunications Committee

November 30, 2010

Spaceport America



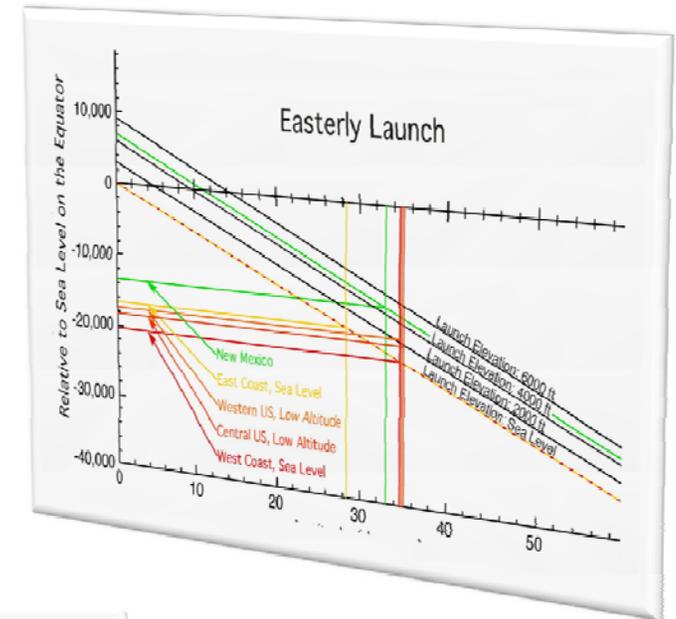
- **World's first purpose-built commercial spaceport**
- **Designed for next-gen reusable space launch vehicles**
- **Anchor tenant Virgin Galactic w/20 year lease; ~\$150-250M**
- **Operational 18-24 months**
- **Economic Development, Tourism, Education**



Advantages of Spaceport Location

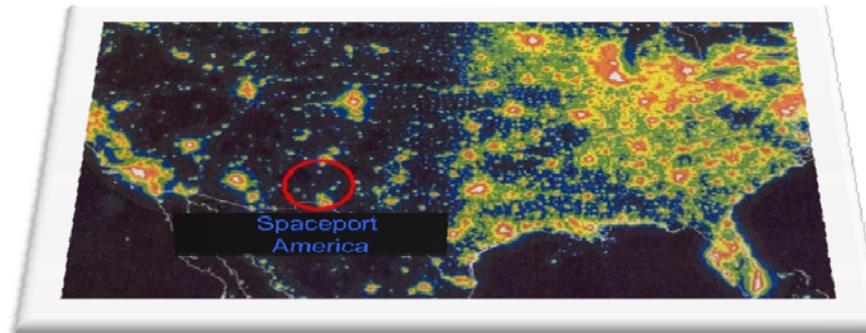


**Low
Population
Density**



**High Elevation
Low Latitude**

**Restricted Airspace
Clear Weather**



Ideal Conditions for Space Access

Spaceport America Status Summary



• Construction in Full Swing

- 13 of 14 Contracts Already Let
- 600+ Jobs
- Est. Completion Q2 2011



• Customer Progress

- Virgin Galactic – 1st Glide flight
- Armadillo – CRuSR commitment
- UP Aerospace – 2nd Edu. Launch



• Operational Development

- 2 RFIs for industry feedback
- 4 RFPs under development
- Business plan / CONOPS
- Deputy Director Hiring



Spaceport America is coming to a desert near you!

Obama Space Policy Announced



★ ★ ★ ★ ★

NATIONAL SPACE POLICY
of the
UNITED STATES *of* AMERICA

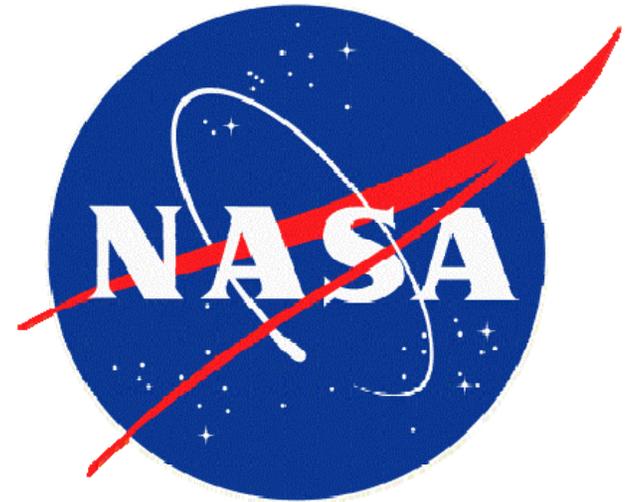
“The United States is committed to encouraging and facilitating the growth of a U.S. commercial space sector that supports U.S. needs, is globally competitive, and advances U.S. leadership in the generation of new markets and innovation-driven entrepreneurship.”

- President Barack Obama, June 28th 2010

Obama's NASA Plan Passes Congress



- **Summary:**
 - Retire Shuttle + Cancel Constellation
 - Invest in Advanced, Enabling Technology R&D
 - Develop Shuttle-Derived Heavy Lift Capability
 - Fund Commercial Crew & Cargo to ISS and LEO missions
 - Fund Commercial Suborbital Research
- **S. 3729 Signed by President on Oct 11, 2010**
- **Positive Potential Impact for New Mexico**
 - **CRuSR:** Buy Commercial Suborbital research flights from companies like Virgin, XCOR, Masten, **Armadillo**
 - **Commercial Crew & Space Technology R&D:** New tech needs a place to test, like WSMR, WSTF, or Spaceport America; **Boeing CST-100 Announcement**



President's Plan Validates NM's Investment in Commercial Space

NM Wins \$10M FAA Center of Excellence



- **NMSU won national competition to host FAA COE for Commercial Space Transportation**
- **Research consortium including:**
 - NMSU, NM Tech
 - FL, CO, TX, CA
- **Research areas include:**
 - **Space Launch Operations and Traffic Management**
 - **Launch Vehicle Systems, Technologies, and Operations**
 - **Commercial Human Space Flight**
 - **Space Commerce**
- **Further validation that NM is the epicenter of the commercial spaceflight industry**

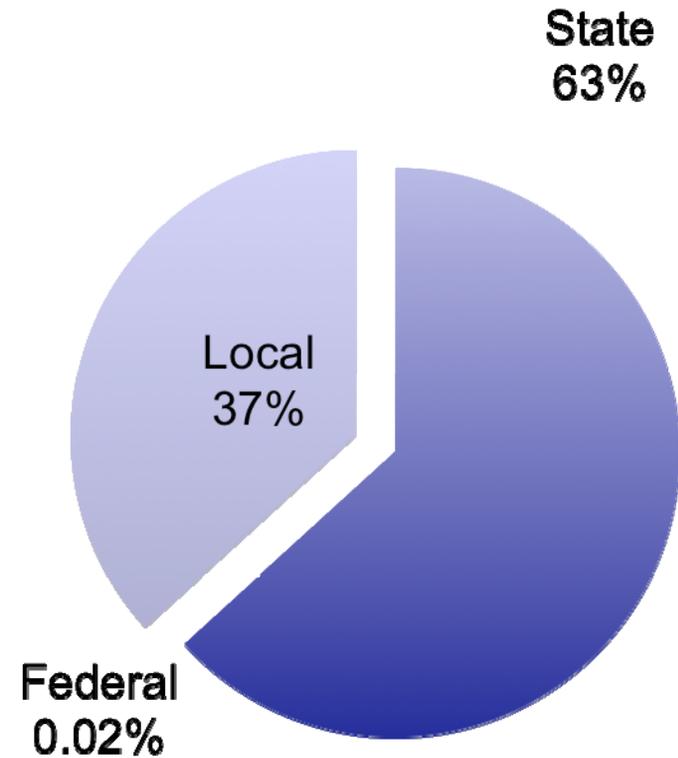


New Mexico is the national center for Commercial Space!

NMSA Project Budget and Sources



Pre-Construction Costs	\$44.3 million
Phase I	\$112.0 million
Phase II	\$55.8 million
	<hr/>
	\$212.1 million

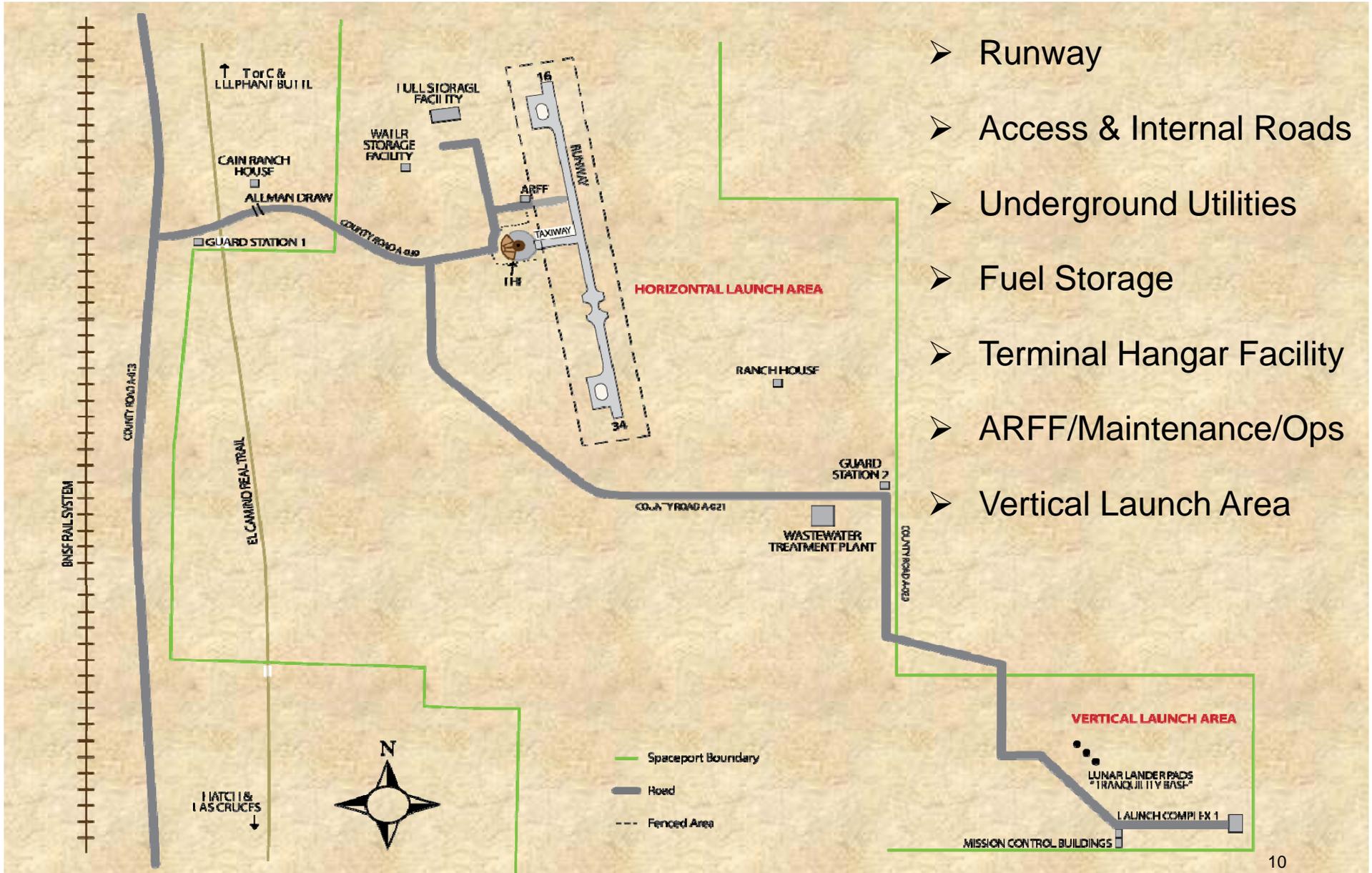


First Federal Funding Announced!

\$43K for Weather Station and FOD Equipment

Doña Ana & Sierra Counties GRT Generates ~\$2M/year for Education

Site Layout



- Runway
- Access & Internal Roads
- Underground Utilities
- Fuel Storage
- Terminal Hangar Facility
- ARFF/Maintenance/Ops
- Vertical Launch Area

Runway Dedication October 22nd, 2010



* Courtesy Mark Greenberg

Construction: Dreams to Reality

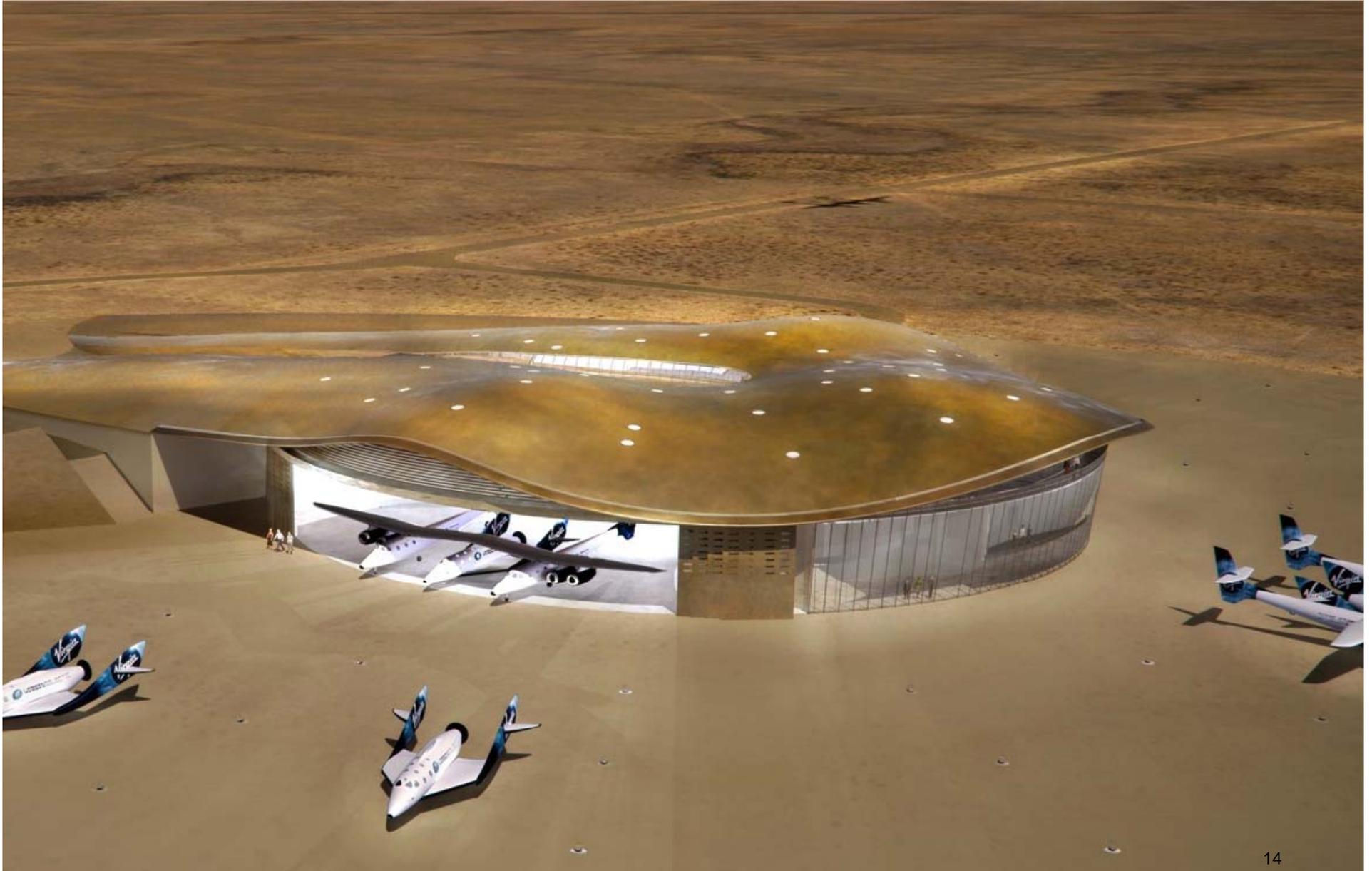


Construction: Dreams to Reality



Photo used courtesy of Bob Martin

Construction: Dreams to Reality

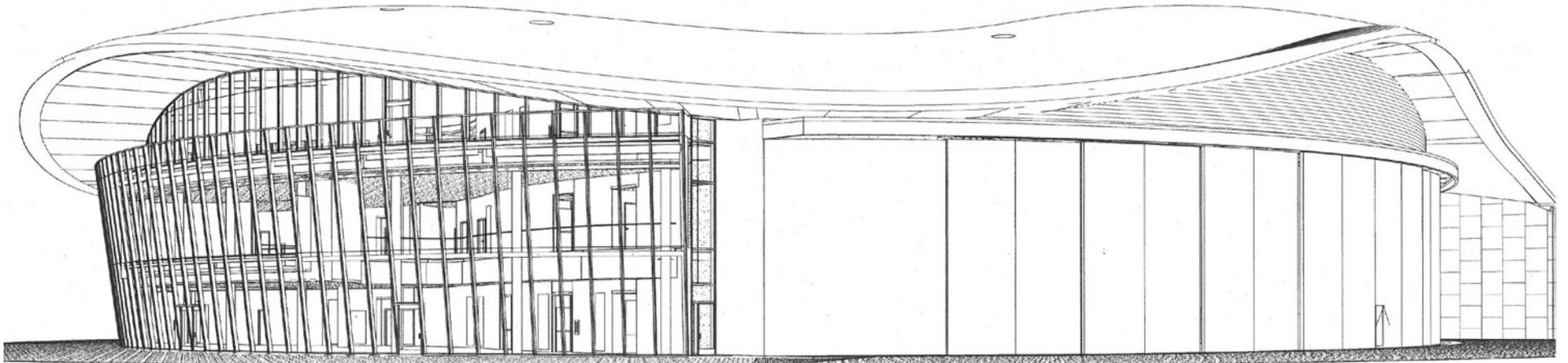


Construction: Dreams to Reality



Photo used courtesy of Bob Martin

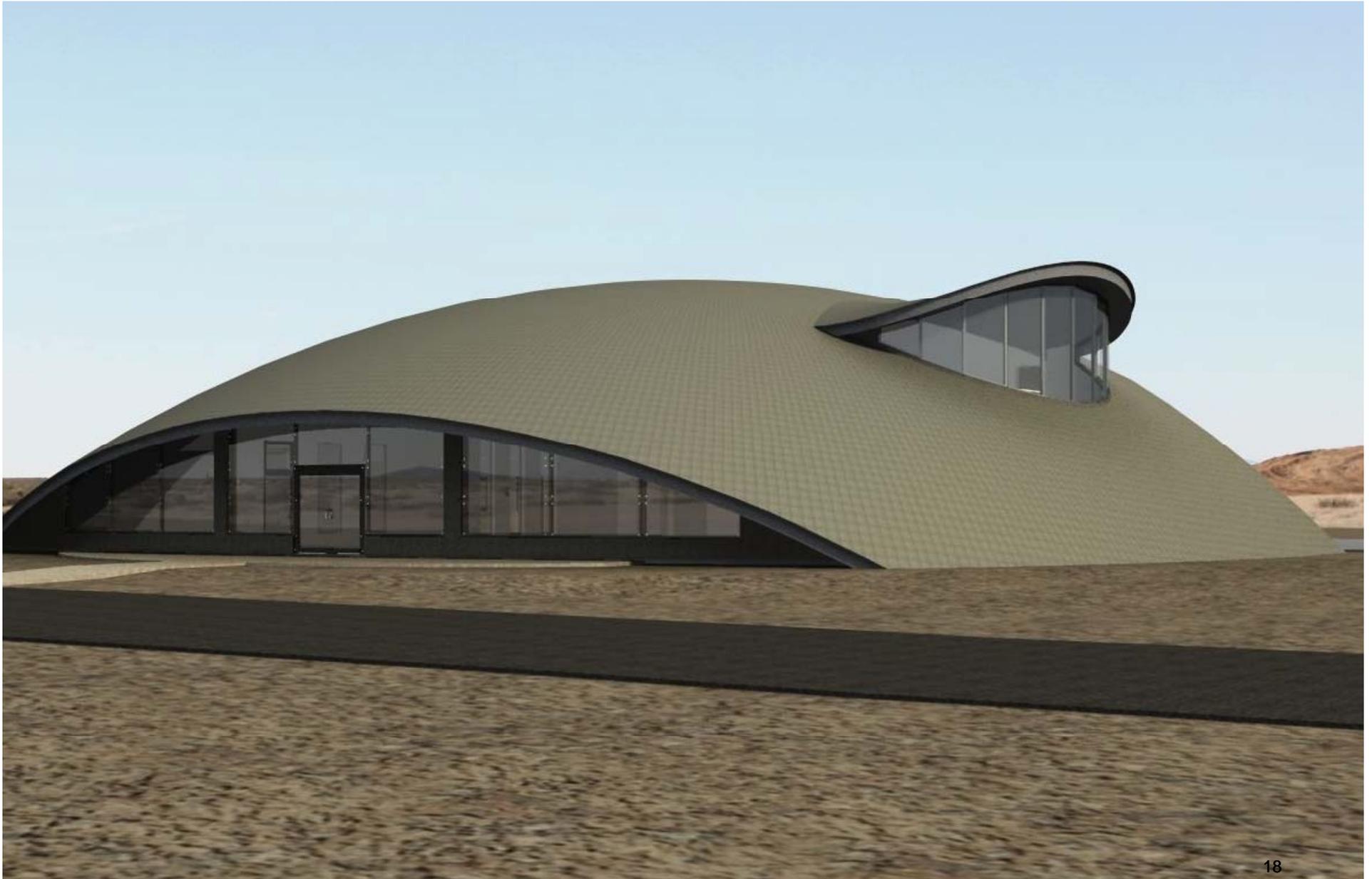
Construction: Dreams to Reality



Construction: Dreams to Reality



Air Rescue Fire Fighting Facility



Air Rescue Fire Fighting Facility

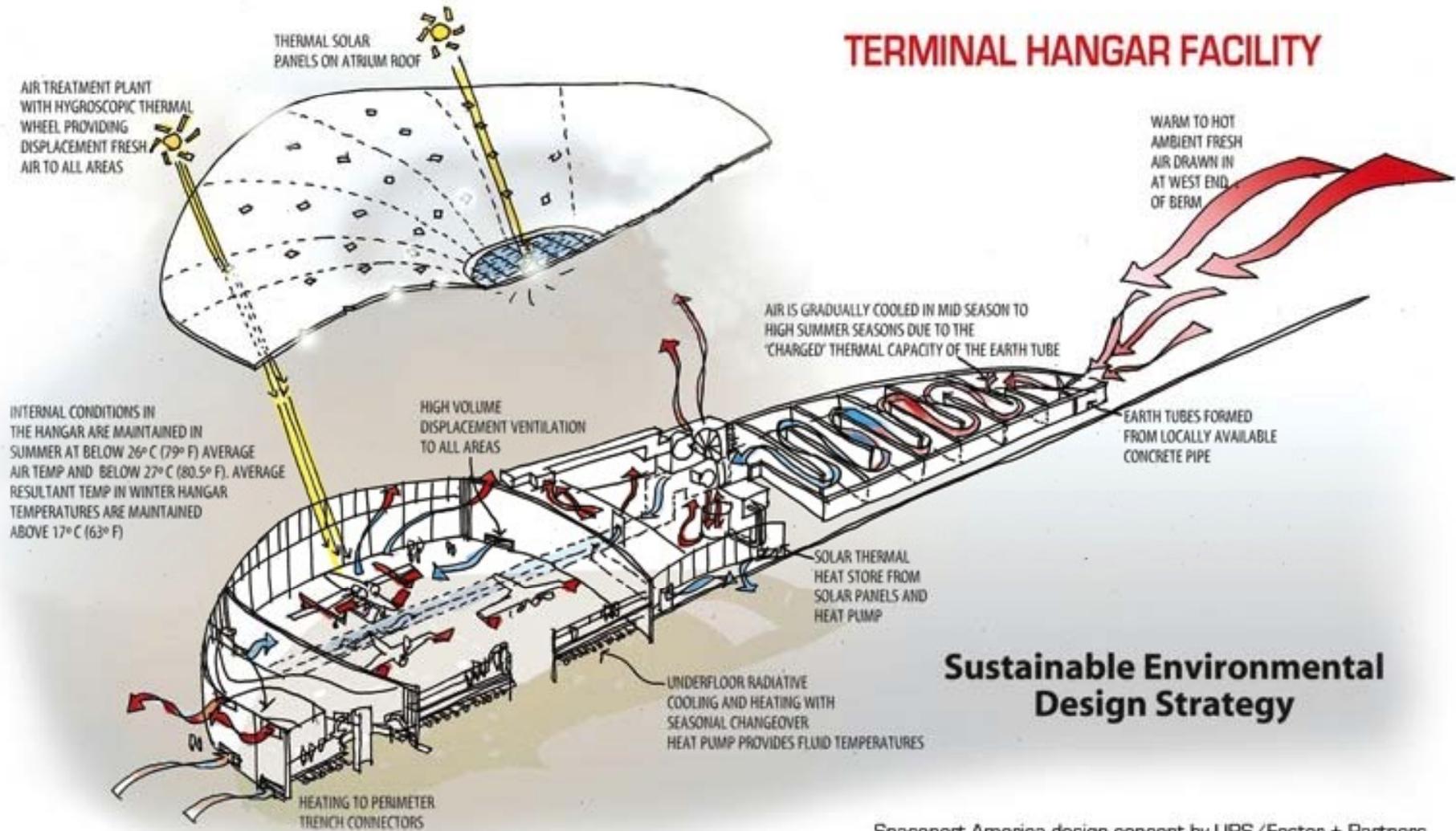


LEED Certified Facility

- **Environmental Efficiency Features**
 - Target LEED Gold
 - Meets Gov. Executive Order
 - Ground-based thermal loops with state-of-the-art passive HVAC system
 - Natural Earth berming with earth tubes to pre-condition air
 - Natural ambient lighting
 - Low-e glazing
 - Co-existence with ranching operations, El Camino Real Trail



Sustainable Design Strategy



Spaceport America design concept by URS/Foster + Partners

Construction Progress to date



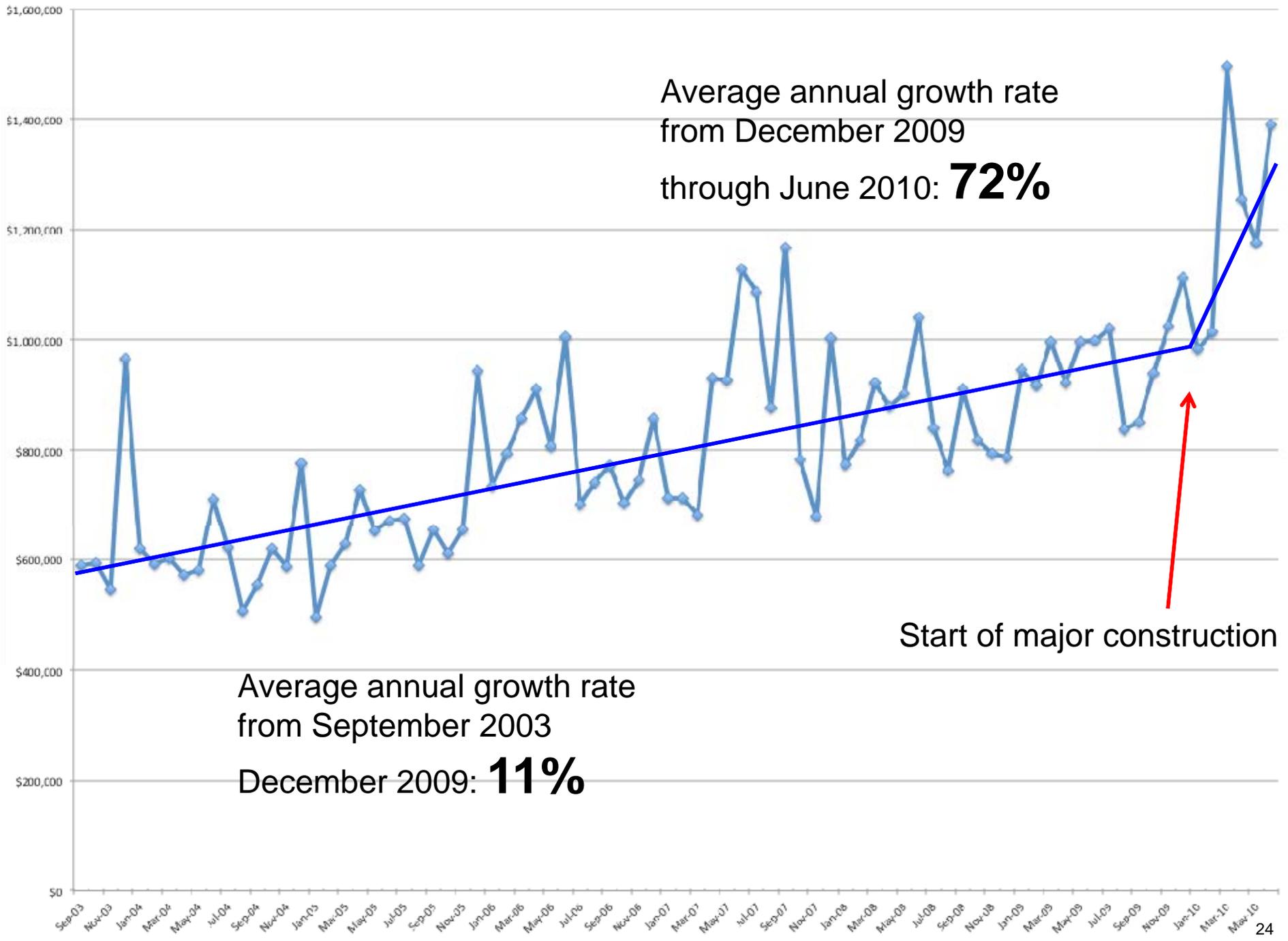
Project Name		Percent Complete
SP-001	Cultural Resource Mitigation (Zia Engineering)	100%
SP-002	Site Enabling Works (FNF New Mexico)	74%
SP-003	Airfield (David Montoya Construction)	92%
SP-004	Wastewater System (AUI)	98%
SP-005	On-site Electrical Distribution (McDade Woodcock)	92%
SP-006	Fencing (Apache/Valley Fence)	13%
SP-008	Internal Roadways (CMC Construction)	80%
SP-009	Water Distribution System (Smithco)	84%
SP-010	Apron (David Montoya Construction)	82%
SP-011	ARFF / Grounds Maint. Building (Bateman-Hall)	45%
SP-012	Fuel Storage (FNF New Mexico)	96%
SP-013	Terminal Hangar Facility (Summit West)	30%

Spaceport America Site: 668 Estimated Jobs and Growing ...



Company Name	NM?	Project	Employees
FNF New Mexico	✓	SP002 & 012	31
David Montoya	✓	SP003 & 010	129
AUI	✓	SP004	107
McDade Woodcock	✓	SP005	14
CMC	✓	SP008	40
Smithco	✓	SP009	50
Summit West	✓	SP013	150-300*
Valley Fence	✓	SP006	10*
Bateman Hall		SP011	50-100*
Systems Integration		SP014	TBD
Zia Engineering & Environmental	✓		5
Gerald Martin Construction Mgmt	✓		8
NMSA	✓		11
Molzen-Corbin	✓		10
AECOM	✓		8
URS/Foster + Partners	✓		25
Sierra Electric Cooperative	✓		20
TOTAL			668-868*

Sierra County GRT



SS2 First Crewed Flight July, 15th 2010



Photo Courtesy of Mark Greenberg

SS2 First Glide Flight October, 10th 2010

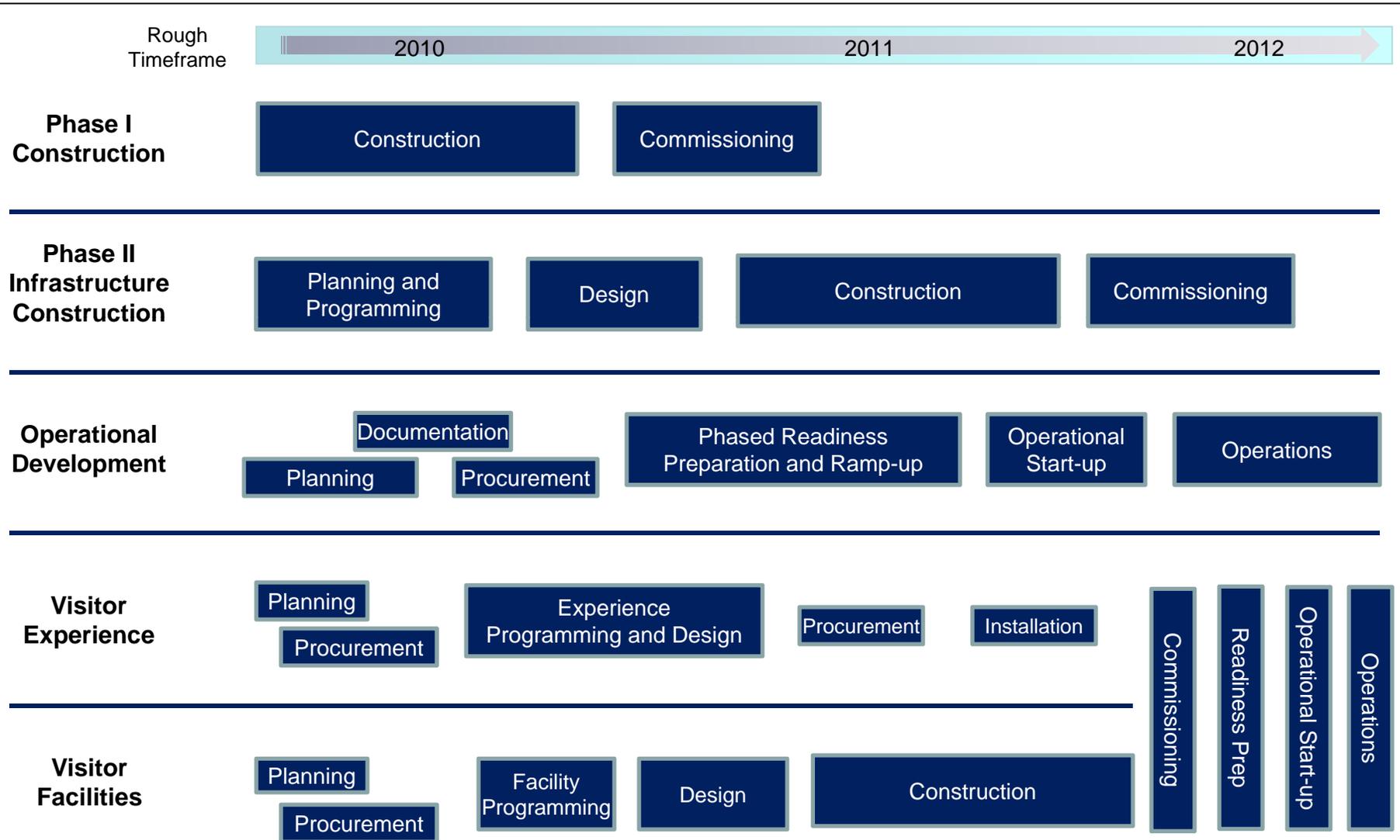


SS2 First Glide Flight October, 10th 2010

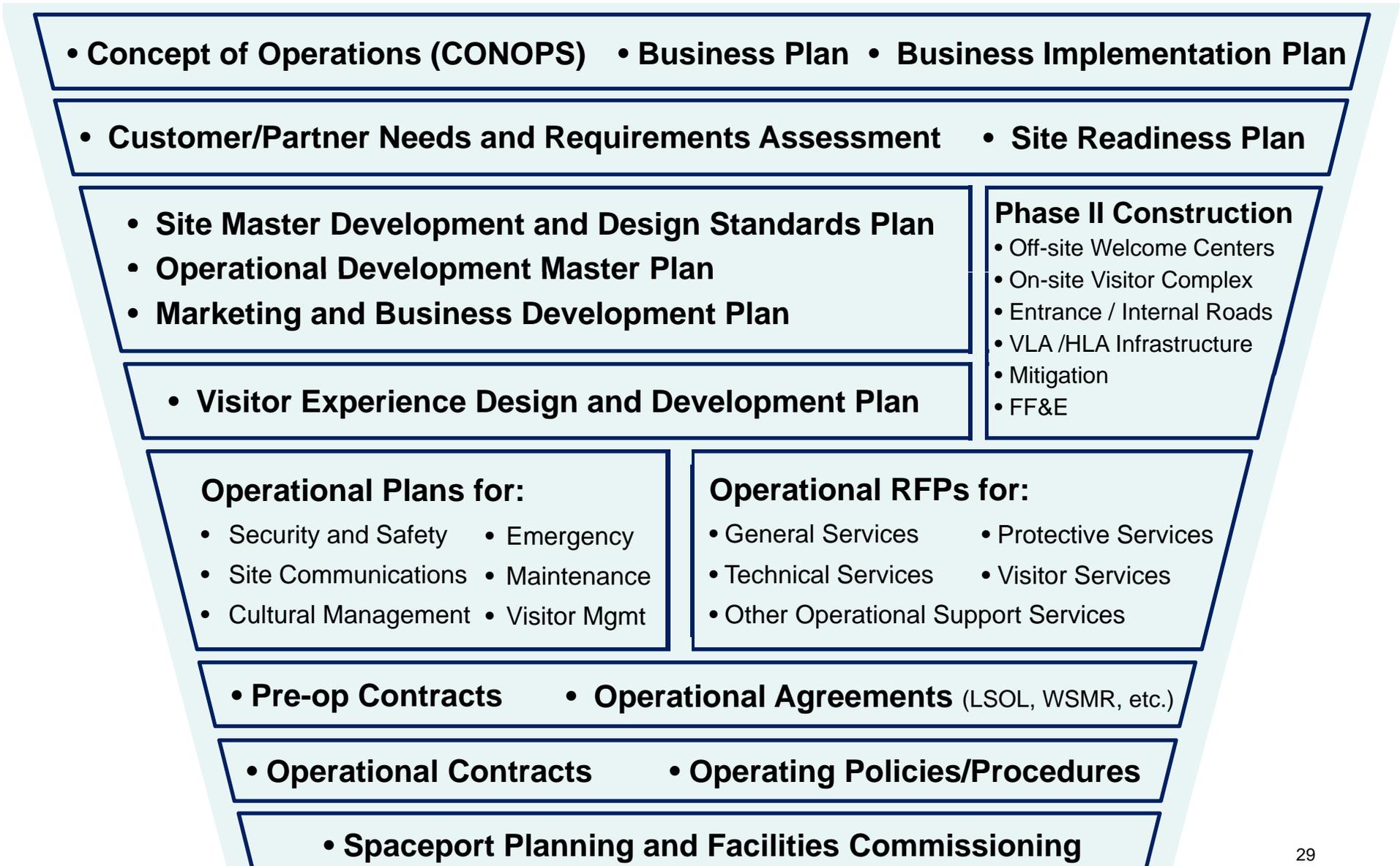


Photo Courtesy of Mark Greenberg

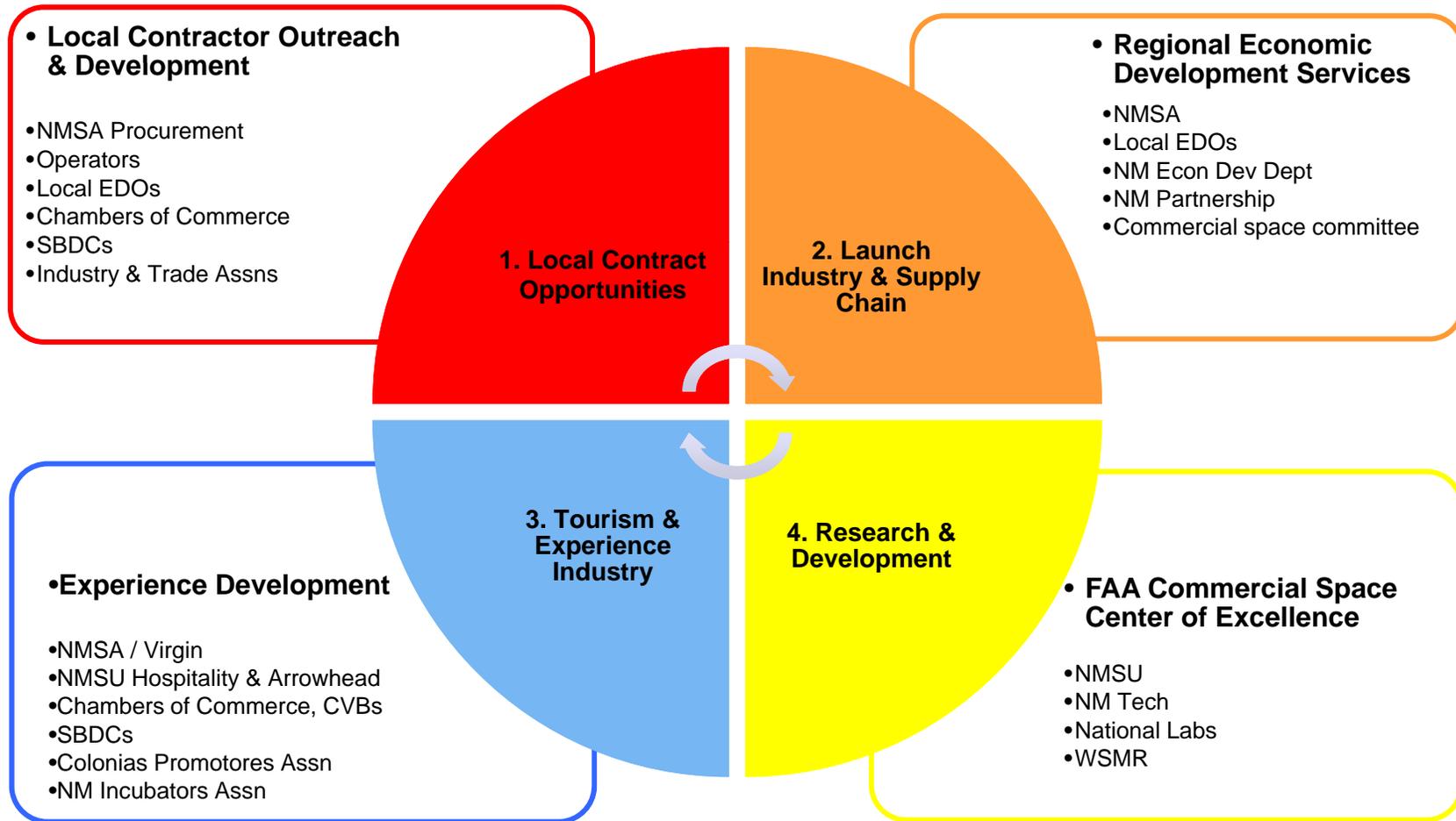
Operational Development Process



Operational Development Hierarchy



Regional Economic Development



Operations Services



1. Protective Services:

- Fire rescue
- Medical/EMT personnel
- Visitor Security
- Customer/Industrial Security
- Law Enforcement
- Crisis Management

2. General Services:

- Facilities Maintenance
- Janitorial
- Ground Vehicle Maintenance
- Groundskeeping
- NMSA Fuel Handling
- Airfield Maintenance

3. Technical Services:

- Ground Safety
- Flight Safety
- Mission Planning
- Airspace Management
- Scheduling

Bidder Registry on www.SpaceportAmerica.com

Business/Industry Days scheduled Dec. 1st and 2nd

RFPs released November 16th 2010

Preliminary Visitor Demand Estimate



US. Household Population	116,700,000 households	U.S. population data
% who travelled past 12 months (TNS)	70%	Previous TNS Global research finding
% aware of SPA	17%	Based on TNS Omni-bus survey (aware=yes)
% interest among those aware of SPA	22%	Based on TNS Omni-bus survey (option 1 or 2)
Conversion from interest to visitation	16%	Based on past experience of intentions vs. behavior for the 3 researchers involved
Reduction for 2 years	50%	Reduced to account for a 2 year range in the survey question
Party size from single household (past NM Visitors)	2.1	TNS TravelsAmerica NM visitor finding
TOTAL potential domestic Visitors	513,275	
TOTAL potential international Visitors	26,000	Based on State standard estimates
Welcome Center ONLY Visitors	22,991	Based on VIC visitors interested only in info
GRAND Total of Visitors to SPA	562,266	

Visitor Experience Planning Timeline



- **Phase I Demand Study Complete**
- **Visitor Experience RFI released Oct. '10**
- **Research, Planning, Feasibility RFP – Dec '10**
- **Visitor Experience RFQ/RFP – Dec '10/Jan'11**
- **Welcome Center Site Selection – Mid '11**
- **Facilities Construction Begins – Late '11**
- **Hospitality Management RFP – Late '11**
- **Opening Day – Mid/Late 2012**

Conclusion

- **Spaceport America: Ground floor of new, global industry**
- **High impact on jobs and education**
- **Critical juncture between construction and operations**
- **Global media spotlight on New Mexico is growing**
- **Progress is full steam ahead**



New Mexico's best opportunity to have worldwide impact, now!

Questions?



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