

FAA Commercial Space Transportation Conference

February 6, 2013

Tim Hughes
Senior Vice President & General Counsel
SpaceX

Revolutionizing Access to Space

SPACEX

Space Exploration Technologies



SpaceX - 2013

- Founded in 2002 w/ 3 employees -- now, nearly 3,000 employees and growing
- Nearly 1 million square feet of offices, manufacturing and production in Hawthorne (Los Angeles), California
- 242-hectare (600-acre) state-of-the-art propulsion and structural test facility in central Texas
- Offices in Washington DC, Chantilly VA, and Houston TX
- Launch sites at Cape Canaveral and Vandenberg AFB



SLC-40, Cape Canaveral



Hawthorne (Los Angeles) Headquarters



Central Texas

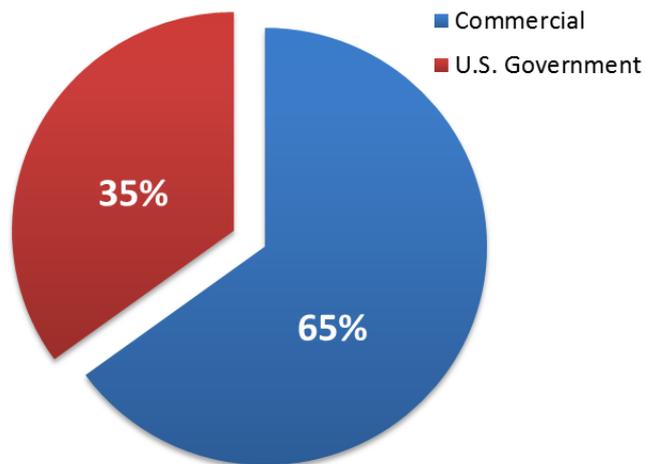


SLC-4, Vandenberg

Business Overview

- Privately owned company
- **Over \$4B in backlog orders**
- Diverse customer base
 - More than 40 missions on manifest
 - New entrant: DoD / EELV program

Manifested Launches Grouped by Sector



- Open pricing policy: www.spacex.com

ISS Cargo Resupply



NASA's COTS Program

- Commercial **O**rbital **T**ransportation **S**ervices
- SpaceX received \$396M
- Successfully completed all milestones
- Historic flight to the International Space Station in May 2012 (COTS 2/3)
- Demonstrated cargo services to and from the ISS; reestablishing American delivery and return capability



NASA's CRS Program

- Commercial **R**esupply **S**ervices
- SpaceX awarded \$1.6B for 12 cargo missions
- Successfully completed first operational mission (CRS-1) in October 2012; next mission set for March 1, 2013 (CRS-2)
- Commercial FAR firm-fixed-price, performance-based contracts reduce government risk and ensure launches are delivered on-budget



CCDev2, CCIcap, and CPC: Astronaut Transport

With the Space Shuttle's retirement, the United States has been reliant on Russia for all crew carriage to the ISS



CCDev2

Conducted crew trials

Completed successful test firings of the powerful SuperDraco thrusters

- Will provide Dragon with the world's safest launch escape system

CCIcap/CPC

Complete the integrated design

- *Critical Design Review of the fully integrated system*

Significantly reduce risk through hardware testing

- *Launch abort test from pad*
- *In-flight abort test*

Ensure crew safety

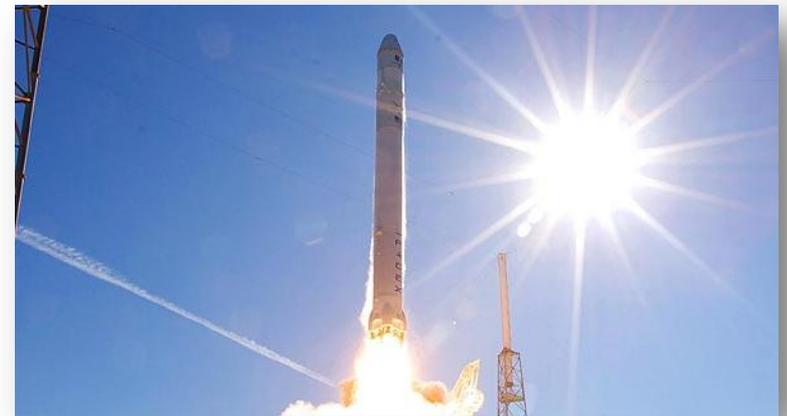
- *Dedicated safety review*

NASA certification

- *Dedicated certification plan review*

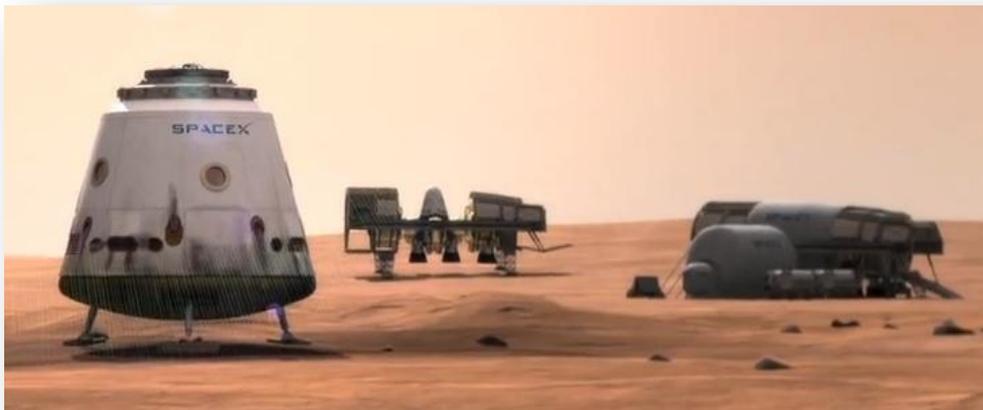
2013 Regulatory and Legislative Topics

- Funding, CRs, and Sequestration
- Risk Sharing and Indemnification Regime
 - Reduce risk for USG
 - Increase parity with foreign launch competitors
- CSLA Legislation
- NASA Reauthorization



Looking Forward

- Robust launch manifest
 - 11 more CRS missions to deliver cargo to the International Space Station
 - More than 40 manifested missions through 2017
- Readyng Dragon for crew-carrying capability
- Debut of Falcon Heavy for large commercial and government satellites
- Testing reusability concepts that will enable SpaceX to develop vehicles that are **fully and rapidly reusable**



SPACEX



Questions?