
SPACEX
BUILDING ROCKETS
FROM THE GROUND UP
SPACEX

The SpaceX Story

- Founded in 2002 by entrepreneur Elon Musk
- Singular goal of providing highly reliable space transportation for satellites, cargo, and crew
- SpaceX rockets are built by American workers in facilities across the country
  - Nearly 1 million sq. ft. of offices, manufacturing and production in Hawthorne, California
  - 660 acre state-of-the-art Propulsion and Structural Test Facility in central Texas
  - Launch sites at Cape Canaveral and Vandenberg
  - Commercial launch site nearing selection
- *Result: the world's most affordable and robust rockets*

Chantilly, VA

Washington, D.C.

Hawthorne (Los Angeles) Headquarters

Central Texas

SLC-40, Cape Canaveral

SLC-4E, Vandenberg

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SpaceX Rockets & Spacecraft

Falcon Family

DRAGON

Dragon Spacecraft

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All-American Space Systems

- U.S. Manufacturing - SpaceX rockets are built from the ground up at our high-tech Hawthorne, CA manufacturing facility
- U.S. Workers – nearly 2,000 employees
- Supporting U.S. suppliers - in 2011, SpaceX purchased goods and services from over 1,500 high-tech suppliers across the United States
- Highly efficient & vertically integrated – value-wise, SpaceX manufactures over 80% of the Falcon 9 launch vehicle and Dragon spacecraft to control quality, cost & schedule.

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Successful Public-Private Partnership

- Partnership structured by firm-fixed-price, performance-based contracts reduce government risk and ensure launches are delivered on-budget.
- Falcon 9 launch vehicle: developed from a blank sheet to first launch in four and half years for just over $300 million
- Dragon spacecraft: developed from a blank sheet to the first demonstration flight in just over four years for about $300 million
- NASA in 2011 conducted a predicted cost estimate of the Falcon 9 launch vehicle using the NASA-Air Force Cost Model (NAFCOM) and predicted the cost to develop the Falcon 9 if done by NASA would have been between $1.7 billion and $4.0 billion. NASA invested under $400 million.
  - Actual company expenditures for all facilities, launch vehicles, and spacecraft: $1.2 billion from 2002-2012 – a fraction of previous systems

Bringing Launches Back to America

- 1980 to 2010: United States drops from having 100% to nearly 0% of the commercial space launch services market
- July 2011: Final flight of the Space Shuttle program. The U.S. is now reliant on Russia for crew access to the International Space Station (ISS)
- May 2012: SpaceX partnered with NASA and made history by successfully orbiting a spacecraft, delivering cargo to the ISS, and returning safely to Earth – the first time a private company has ever succeeded or even attempted to do so; previously, it was a feat only accomplished by nations
- July 2012: SpaceX wins every Falcon 9 class commercial contract for launch services competed on the international market in 2012
- 2015: SpaceX expects to fly U.S. astronauts to the International Space Station

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Flying American Astronauts

- Developing safe and affordable American access to the International Space Station.
- The United States currently pays Russia $63M per seat.
- SpaceX's all American crew system will accommodate 7 Astronauts at $20M per seat assuming 4 flights per year.

SuperDraco Launch Abort Engine Test

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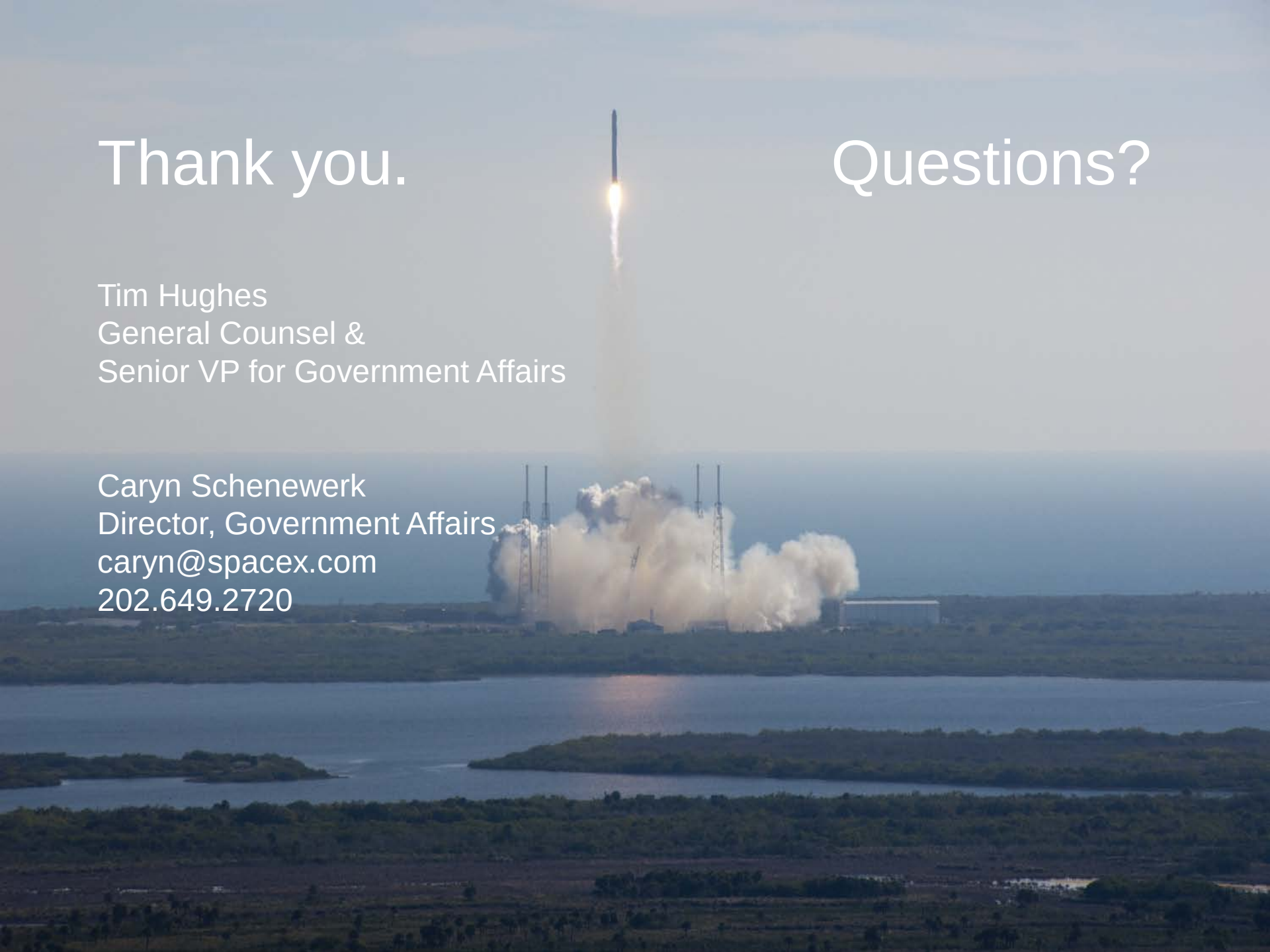

Thank you.

Questions?

Tim Hughes
General Counsel &
Senior VP for Government Affairs

Caryn Schenewerk
Director, Government Affairs
caryn@spacex.com
202.649.2720