

SpaceX Today

SPACEX

- Over 1500 employees
- 550,000 sq ft (51,000 sq m) of offices, manufacturing and production in Hawthorne, California
- 600 acre state-of-the-art Propulsion and Structural Test Facility in central Texas
- Launch sites at Kwajalein and Cape Canaveral
- Developing launch site at Vandenberg
- Small offices in DC, Huntsville and Houston



Omelek, Kwajalein Atoll



SLC-4E, Vandenberg



SLC-40, Cape Canaveral



Hawthorne (Los Angeles) Headquarters



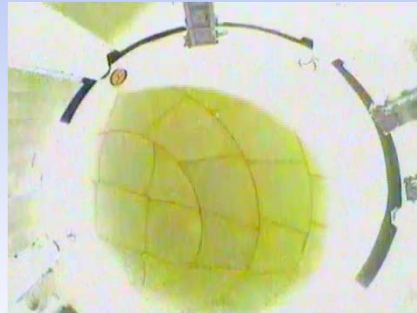
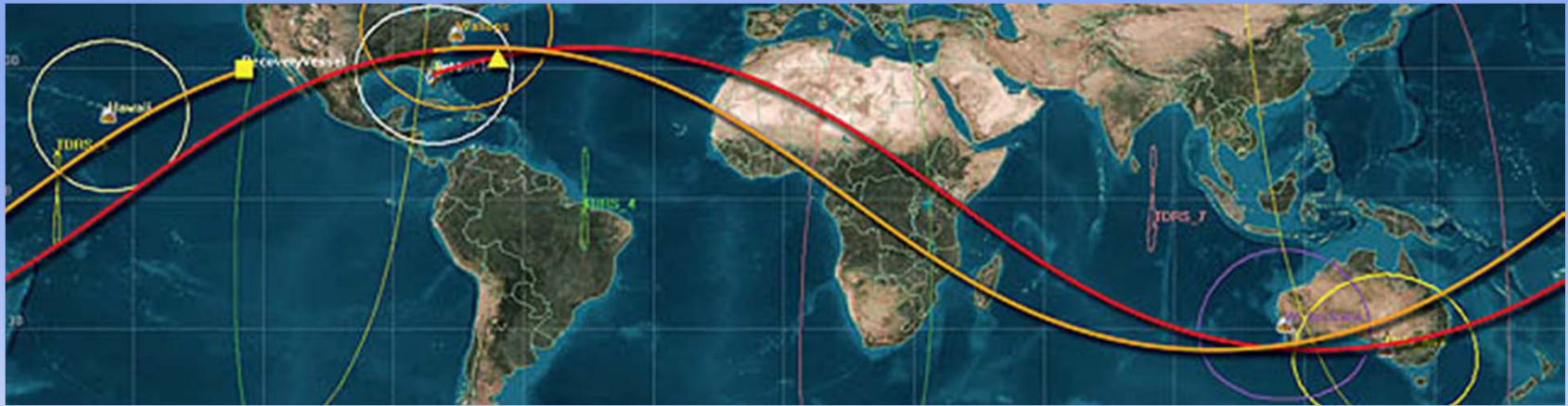
Central Texas

F9 First Flight



Space Exploration Technologies Corporation

COTS C1 – Dec 8, 2010



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Cargo Delivery

SPACEX



- Commercial Orbital Transportation Services (COTS)
 - Performed under a Space Act Agreement (SAA)
 - Government and private funding
 - Approximately \$500 million split among Orbital and SpaceX, with unfunded space act agreements to other companies.
- Commercial Resupply Services (CRS)
 - Performed under a fixed price contract
 - Milestone payments at key points during preparation for each mission
 - Two main suppliers – Orbital and SpaceX
 - \$1.6 billion to SpaceX under a fixed price contract for 12 cargo flights to ISS
 - Minimum of 20000 kg cargo
 - Each flight similar to COTS C3

Dragon: Crew Transport Services



Affordable Development



- COTS/CRS Model
 - Government invests along with the contractor
 - Government expertise and facilities
 - Focused government insight and oversight
 - Verification and Certification of reasonable requirements
- Benchmark a minimum solution that works – Soyuz?
- Incentivize improvements on the minimum solution.
- Take an evolutionary approach.