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KENNEDY SPACE CENTER “AMERICAS GATEWAY TO SPACE”

What does the future hold?





KSC's VISION AND MISSION

VISION - KSC is the world's preeminent launch complex for government and commercial space access, enabling the world to explore and work in space

MISSION - KSC safely manages, develops, integrates, and sustains space systems through partnerships that enable innovative, diverse access to space and inspires the Nation's future explorers' capabilities to make accessing space less costly and more routine





OVERARCHING GOALS

- Ensure mission success by providing government and commercial access to space
- Develop, operate, and sustain a robust launch complex for all providers
- Conduct research and technology development to enable mission success
- Provide a robust institution to enable success
- Inspire, engage, and educate through enriching programs, internships, and mutually beneficial partnerships



KSC PRIORITIES

NEAR-TERM GOALS

- Launch/Land remaining Shuttle missions safely
- Launch Services Program, five remaining launches in 2011



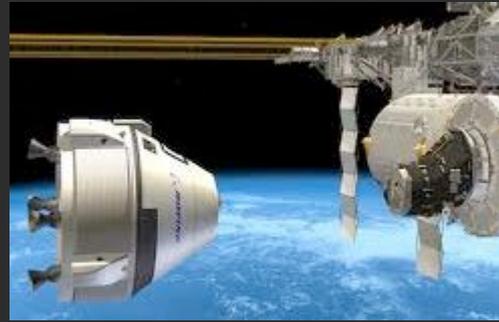
KSC CHALLENGES



- Cultural changes
- Programmatic uncertainties
- Budget constraints and overall economic climate
- Workforce changes
- Facilities usage and sustainment



KSC OPPORTUNITIES



- Commercial space transportation and services
- Transition to a multiuser space launch complex
- Business development and creative partnerships
- Center reorganization, cultural shift





**TURN CHALLENGES AND OPPORTUNITIES
INTO CAPABILITIES**



Launch Vehicle Classes

■ Small

Minotaur IV, Taurus, Athena IIc

■ Medium

Delta II, Atlas II & III (no longer servicing)

■ Intermediate

Falcon 9, Atlas V, Delta IV

■ Heavy

Delta IV Heavy, Falcon 9 Heavy



LAUNCH CAPABILITIES

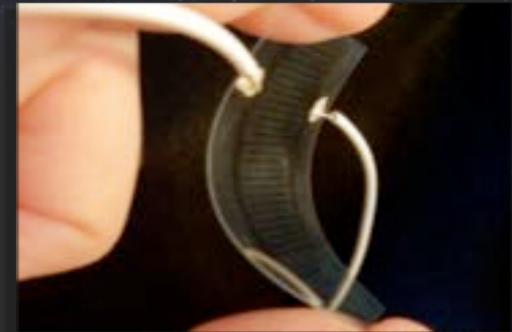
- Access to multiple launch complexes supporting full spectrum of launch vehicles
- KSC's Complex 39 pads and Shuttle Landing Facility are available for multiple users

WORKFORCE CAPABILITIES



- Highly skilled, technical workers
- Committed to science, engineering, mathematics
- Dedicated to space program
- World's most experienced workforce in launch of humans and other high-value payloads

TECHNOLOGICAL CAPABILITIES



- Smart self-healing coating
- Wire fault detection and self-repair
- Electrodynamics dust shield technology
- Human robotic systems
- Cryogenic orbital testing

PLANNING AND DEVELOPMENT CAPABILITIES



Center Planning and Development Office

- Perform Center-wide planning to provide a flexible framework for future spaceport development
- Develop and manage Center agreements for non-programmatic, commercial, and other Government partnerships
- Increase economic diversity of the Center
- Provide consistent, integrated processes for partnerships
- Make most effective use of KSC's underutilized capacity



PARTNERING CAPABILITIES



Partnership developers and spaceport planners are engaged in direct discussions with potential government and industry partners regarding user-specific needs and requirements that can be met by the Center's unique facilities and capabilities



EMERGING PARTNERSHIPS



Currently exploring opportunities with companies such as:

Boeing	Lockheed
ATK	Bigelow
Sierra Nevada	USA
SpaceX	ULA
Blue Origins	Orbital



THE FUTURE

- KSC will be the launch complex of choice for the future, designed to serve the needs of a global market
- KSC will support a diverse fleet of commercial and government space transport systems
- KSC will use its unique facilities along with a highly skilled workforce to support the space community, which will make access to space less costly and more routine
- NASA will explore beyond low-Earth orbit, and will continue to launch from KSC





QUESTIONS?

