

# SPACE CITY 2020

## SPACE STRATEGY WORKSHOP

Rice University BioScience Research Collaborative • Friday, Sept. 9, 2011

Space City 2020 is presented by



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In cooperation with

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Texas Medical Center



BioScience Research Collaborative



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Richard E. Smalley Institute

For Nanoscale  
Science and Technology  
at Rice University



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## Douglas Terrier

Deputy Director for Strategic Opportunities and Partnership  
NASA Johnson Space Center

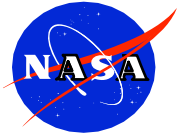
RICE **NASAversary**

A composite image of space exploration. On the left, a portion of Earth is visible, showing continents and clouds. In the center, the Moon orbits Earth. To the right, Mars is shown. In the bottom right corner, Jupiter is depicted with its characteristic bands. A comet with a long tail is streaking across the upper right. A satellite is visible in the upper left. The background is a deep blue space filled with stars and a spiral galaxy.

**NASA Johnson Space Center  
Leading The Next Era  
of Space Exploration**

**Rice Space Strategy Workshop**

**9 Sept 2011**



## *JSC and Houston's First 50 Years in Space*

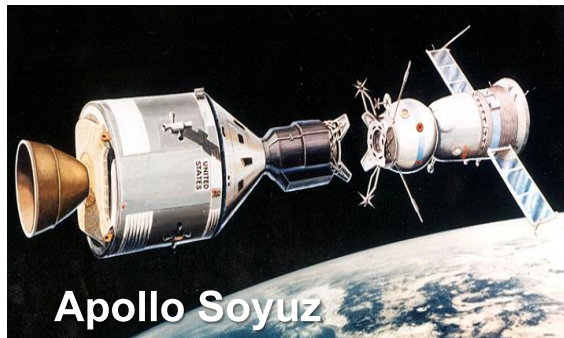
**Lunar Landing**



**Space Shuttle**



**International Space Station**



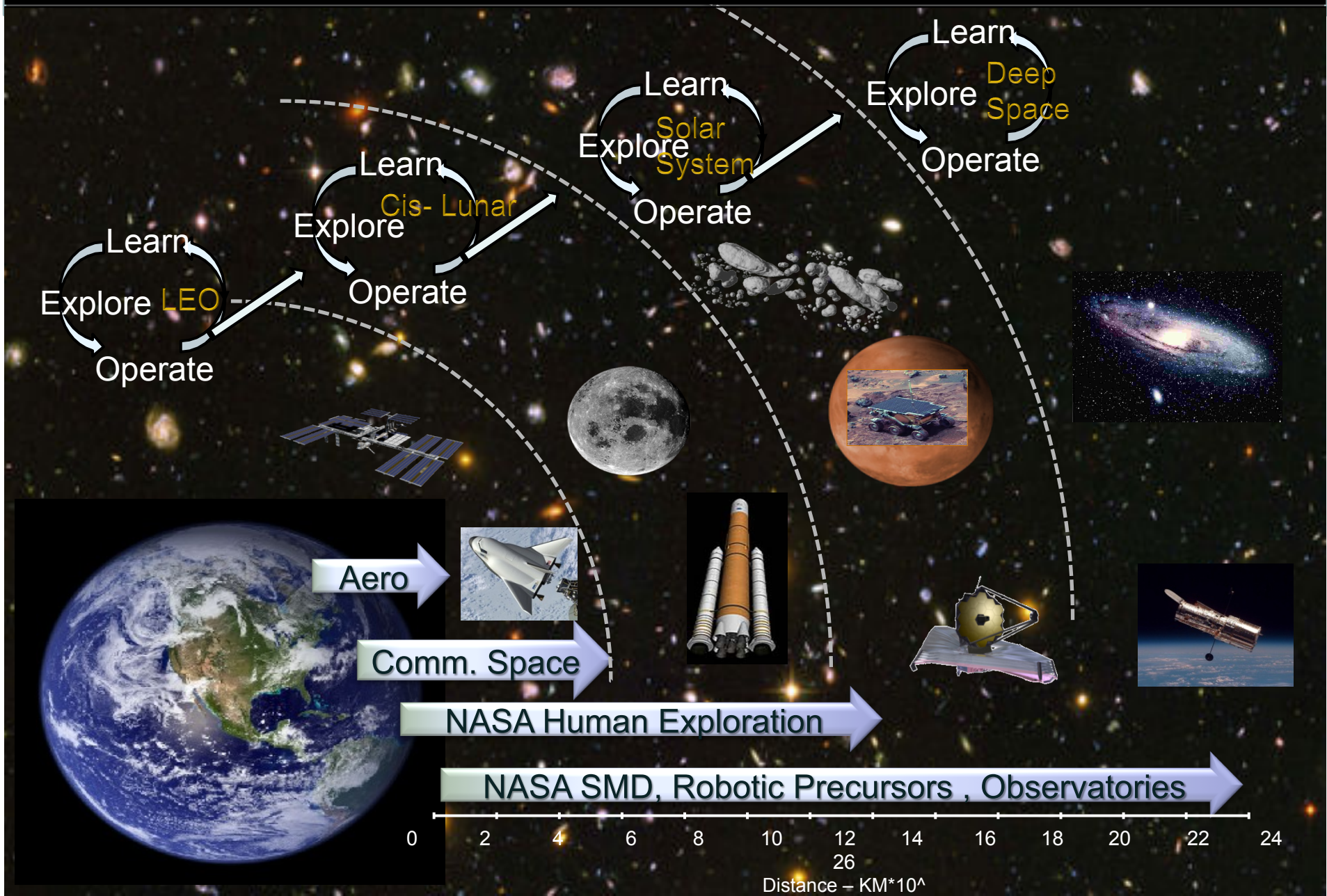
**Apollo Soyuz**

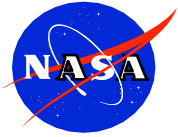
**Hubble Telescope**



***We celebrate 50 years of partnership leading human space exploration, and will build on this amazing legacy to lead the next era of exploration.***

# HSF Evolution



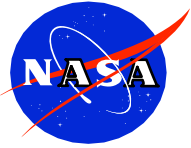


## *JSC Priorities for Next Era of Human Spaceflight*

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- **Lead Global, Affordable, Sustainable, Beyond-LEO Human Exploration Effort**
- **Develop MPCV and SLS - Essential Elements of Beyond-LEO Architecture**
- **Safely Operate ISS Through At Least 2020 with Enhanced Science Role**
- **Enable CCDev2 and COTS Programs - Commercial Access to LEO**
- **Develop Space Technology in Collaboration with Academia and Industry**
- **Enhance Partnerships That Maximize Societal, Economic, Educational Impact**



# Recent Progress

- **Orion MPCV Decision Formalized**
  - Approximate value \$1.1B
- **JSC awarded Advanced Exploration Systems Development Work**
  - ~380 CS and \$30M procurement
- **Reimbursable Space Act Agreements Supporting CCdev2 Companies**
  - Leasing processes and facilities to provide competitive services
- **Non-Aerospace Partnerships Producing Mutual Benefits**
  - Spin-off NASA technology to Energy, Safety, Medical, Automotive, etc.
- **Enhancing University Relationships**
  - Space Act Agreement in Place with Rice University
- **Developing Innovative Partnership Mechanisms**
  - BayTech Formulated to Facilitate New Business Opportunities
  - Working with HTC to host Technology Acceleration Center at JSC
  - Supporting new Regional Center of Innovation and Commercialization

