Panel Session IV - Launch Vehicle Options for Exploration

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Launch Vehicle Options for Exploration

Mr. Michael Gass
VP, Space Transportation
Lockheed Martin
Space Systems Company

Evolution Philosophy

- Maximize Mission Success, Affordability and Performance
  - Introduce Improvements One Step at a Time—Spiral Development
  - Ensure Improved Flying Product at Each Step
- Maintain Common Fleet and Processes for All Customers
  - NASA, AF, NRO, Commercial
  - Human Spaceflight
- Benefits of Evolution Philosophy
  - Grow Capability As Needs Mature—Lowest Risk & Incremental Cost
  - High Demonstrated Reliability
  - Shared Infrastructure Reduces Cost

Evolutionary LV Development Strategy Proven

Atlas Evolution

System-Level Human Rating
Summary

• Focus on 100% Mission Success

• Mission Architecture Sets Direction for Future Space Transportation Capability

• Integrating Safety, Affordability and Performance Is Critical to Enable Renewed Vision of Discovery

Nation's Vision Provides Unique Opportunity for NASA, DOD and Industry Partnership