Panel Session IV - Launch Vehicle Options for Exploration

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Launch Vehicle Options for Exploration

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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

System Level Approach Meets Space Exploration Needs
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