# *Progress Toward First Flight of the QuickReach™ Small Launch Vehicle*

***Presented to:***

**Utah State Small Satellite Conference**
***Session III – Launch and Propulsion Systems***

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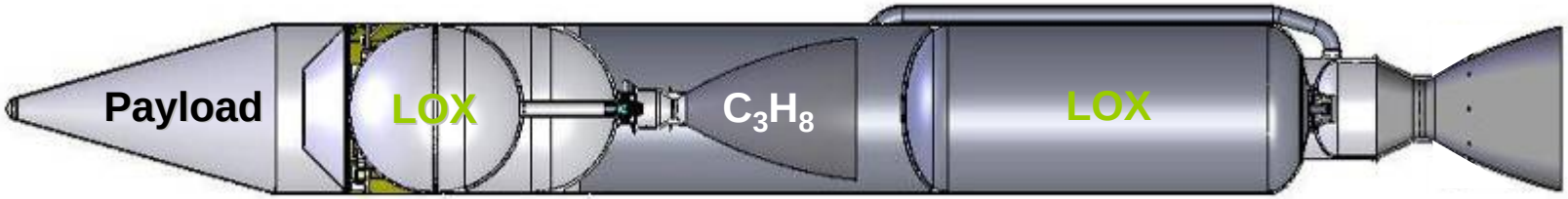
**Logan, Utah**
**14 August 2007**

# AirLaunch QuickReach™ Small Launch Vehicle

- 1000 lbs to LEO
- $5M / Flight
- < 24 hrs Response Time




**Maximum Flexibility – Minimum Infrastructure**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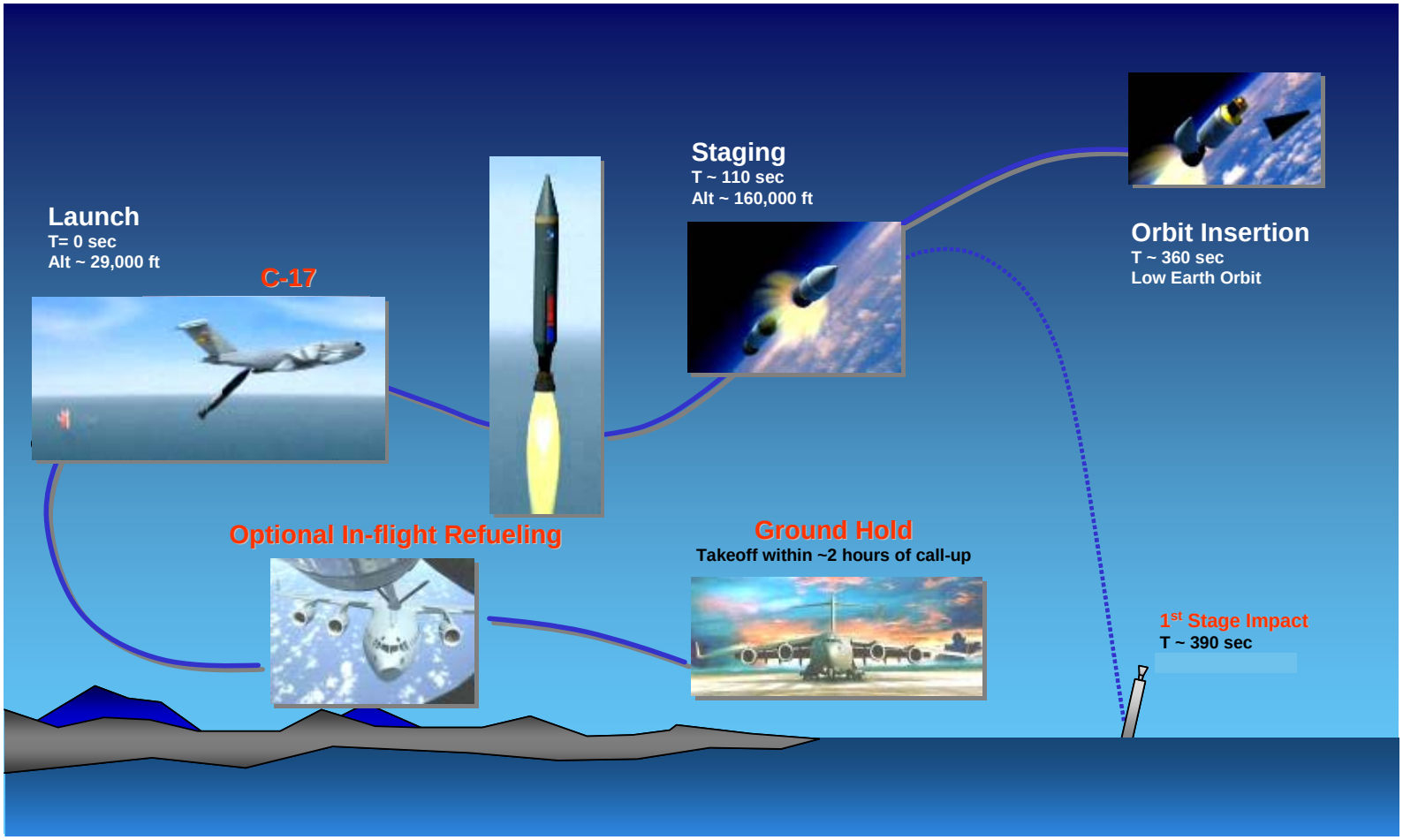
# AirLaunch CONOPS Enables Multiple Missions




- New Missions
- Augmentation
- Reconstitution
- Time-Critical Needs

**All Azimuth Launch, from Anywhere, at Anytime**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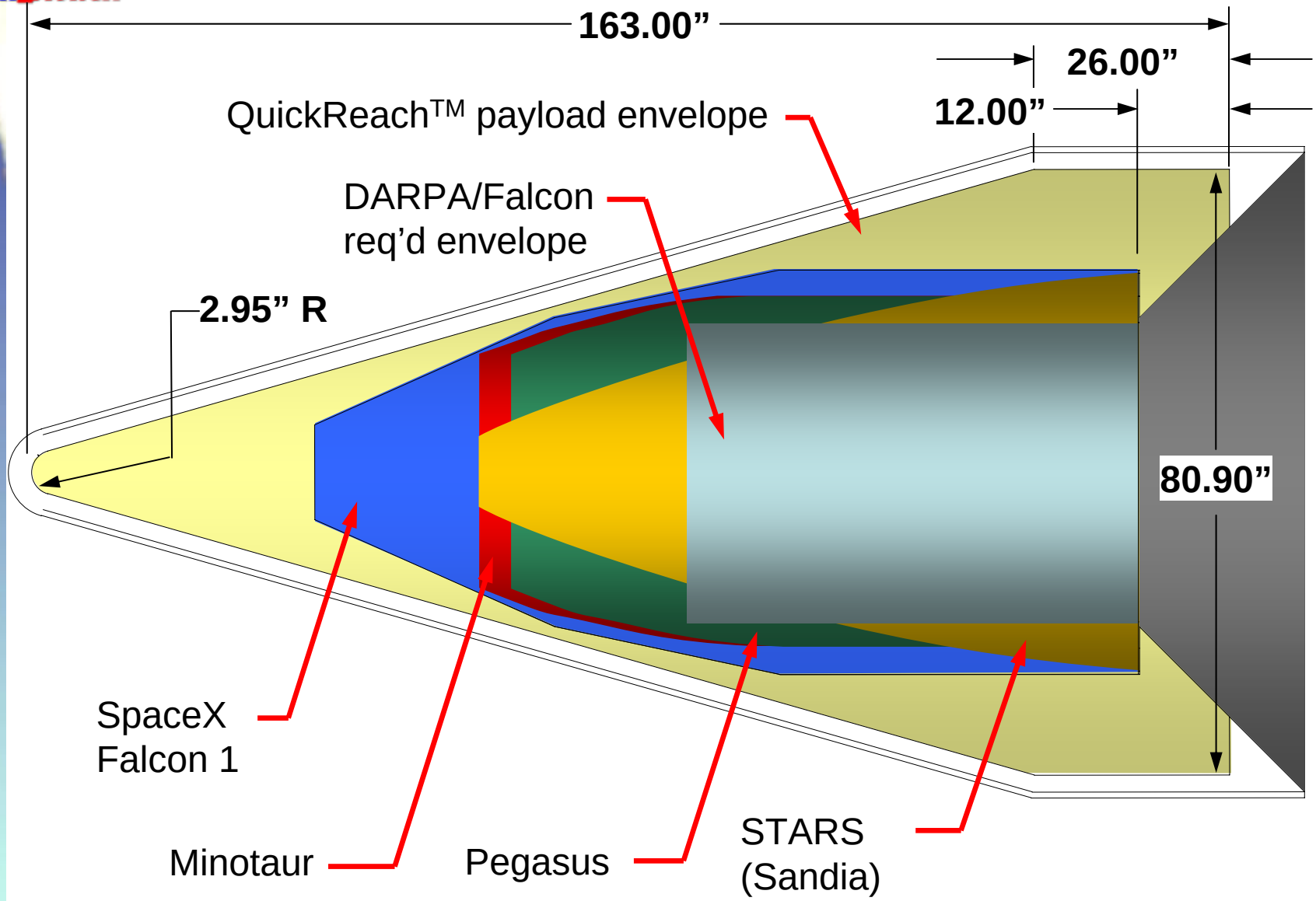
# QuickReach Payload Envelope Encompasses Other Small Launchers





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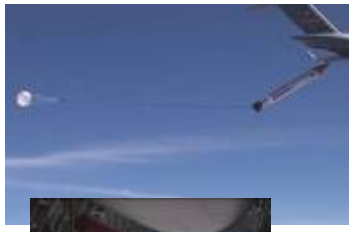
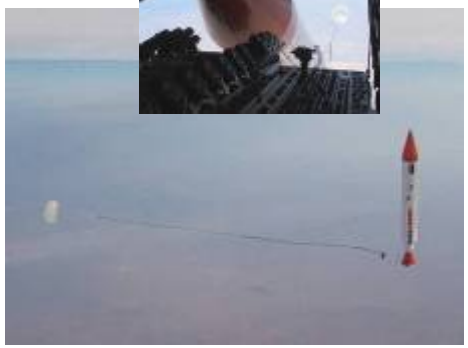
# Phases 1, 2A, 2B Complete





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# What's Next

- Falcon SLV Phase 2C underway
  - Conducting extensive propulsion testing and analysis
  - Exploring additional applications of engine and vehicle
- System engineering and vehicle development will continue in future phases
- First launch to meet ORS goal before 2010

**AirLaunch conducted longest VaPak burn in history, of 191 sec**

**QuickReach™ Payload Fairing Elements and Payload Fairing Separation Test**