Cubesats & Access to Space

with excerpts from
“A Hitchhiker’s Guide to Ridesharing, Part II”

Linda Herrell
Jet Propulsion Laboratory
California Institute of Technology
Overview

• Cubesats are a small-scale space vehicle. How do they compare to other payloads and spacecraft? Where do they fit?

• Emerging access to space options. Again, what niche do cubesats fill?
Payload Survey
Mass/Power Correlation

Payload Mass (kg)

Payload Power (W)

- NMP
- NSTC
- SERB
- SmallSat
- CubeSat 1-3x Limits
- SIV Limits
- ESPA Limits

Excerpt from "Form Follows Function: A Pragmatic Approach to Access-To-Space (ATS) for Space Technology Experiments" MacNeal/Herrell 2008 IEEE Aerospace Conference

Herrell, 2008 Cubesat Workshop, Logan, Utah
Excerpt from "Form Follows Function: A Pragmatic Approach to Access-To-Space (ATS) for Space Technology Experiments"  
MacNeal/Herrrell 2008 IEEE Aerospace Conference
The answers

• Cubesats are one of several space vehicle types.

• The PPOD accommodation on Minotaur & NASA launch vehicles is ground-breaking (excuse the pun).