



**Expanding the Future:**  
*The Development and Use of Inflatable  
Habitats for Lunar Exploration*

NASA Community Workshop on the GER  
Applied Physics Laboratory, April 10, 2014

# The Genesis Missions





Mission Control  
Las Vegas Nevada



# Genesis I

- Launched on July 12, 2006 by ISC Kosmotras from the new Yasnny Launch Base in the Orenburg Region of Russia
- Genesis I validated BA's fundamental engineering concepts and proved the deployment process
- Genesis I demonstrated expandable habitats' long-term durability and provided BA flight controllers with invaluable experience in on-orbit operations



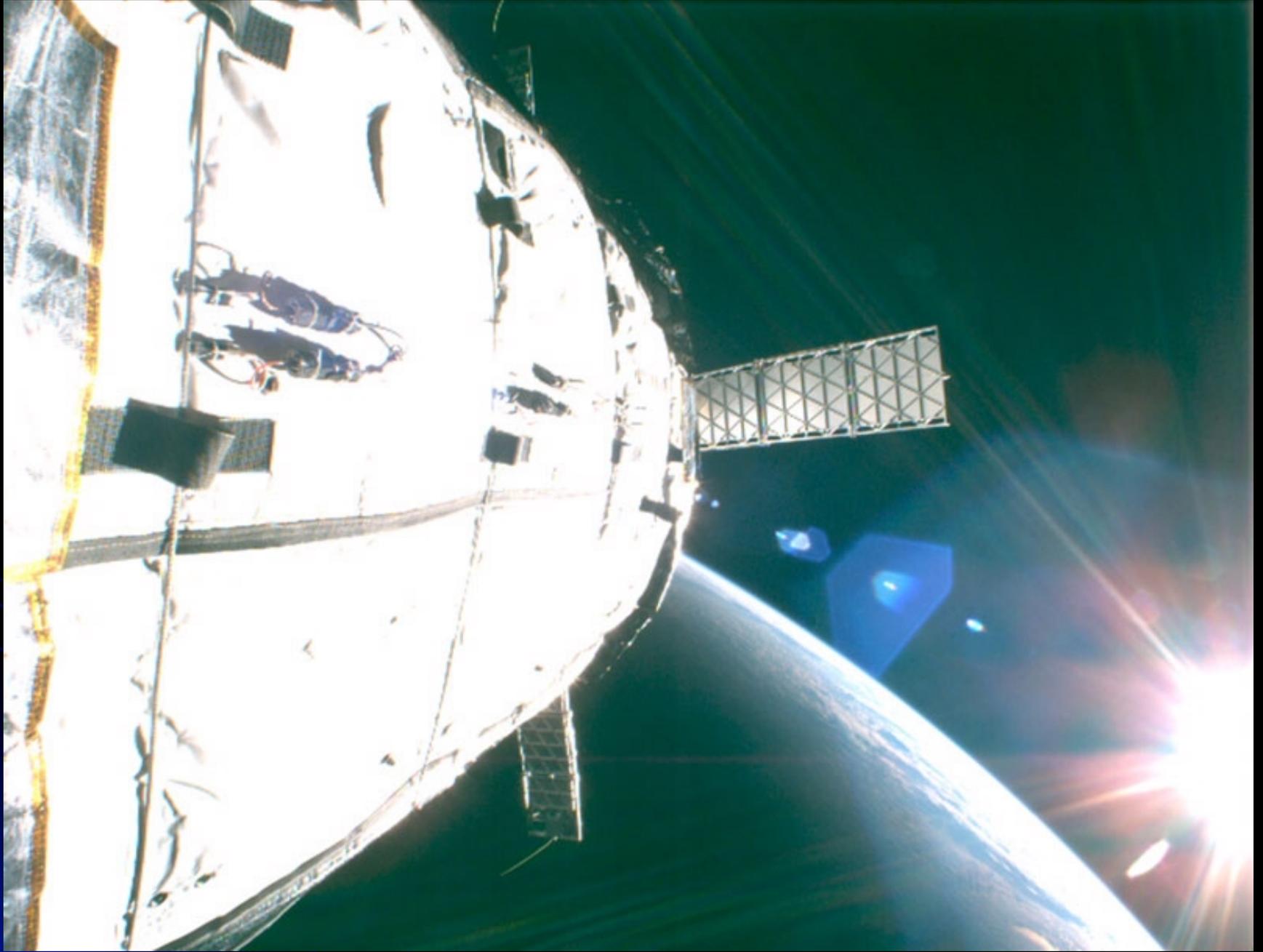
# Genesis I Firsts

- First launch by Bigelow Aerospace
- First launch of an expandable space habitat prototype into orbit
- First launch of a single, large payload aboard the Dnepr
- First launch from the new Yasnny Cosmodrome in Russia



# Genesis I







# Launch of Genesis II on Dnepr LV from Yasny Launch Base



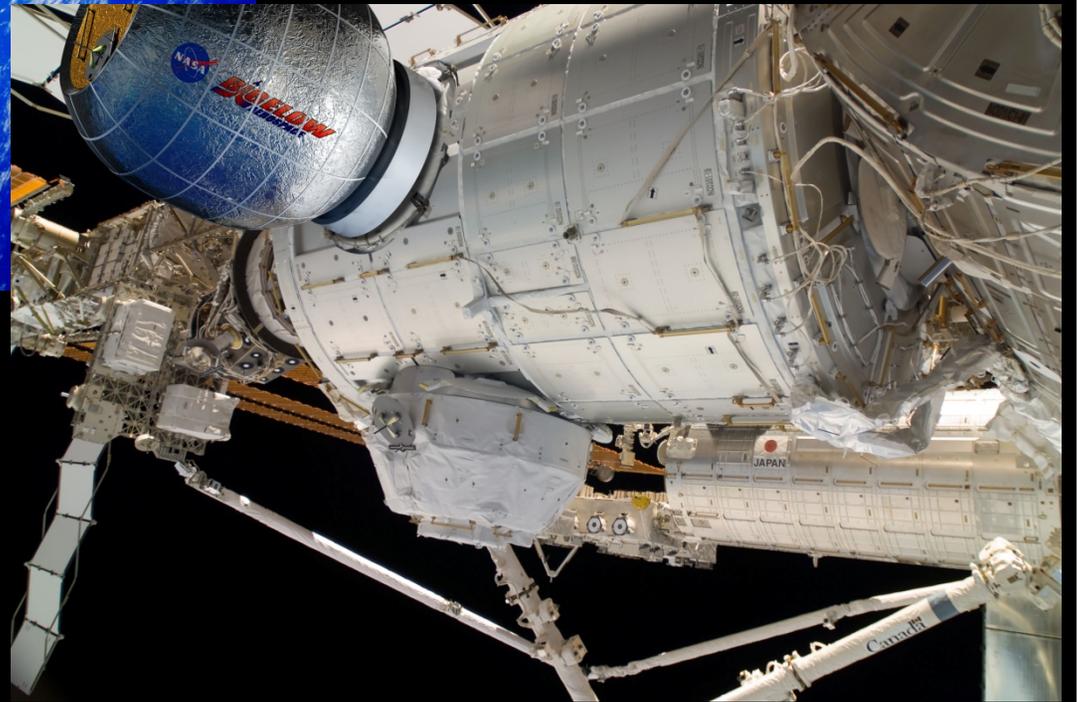
# Genesis II

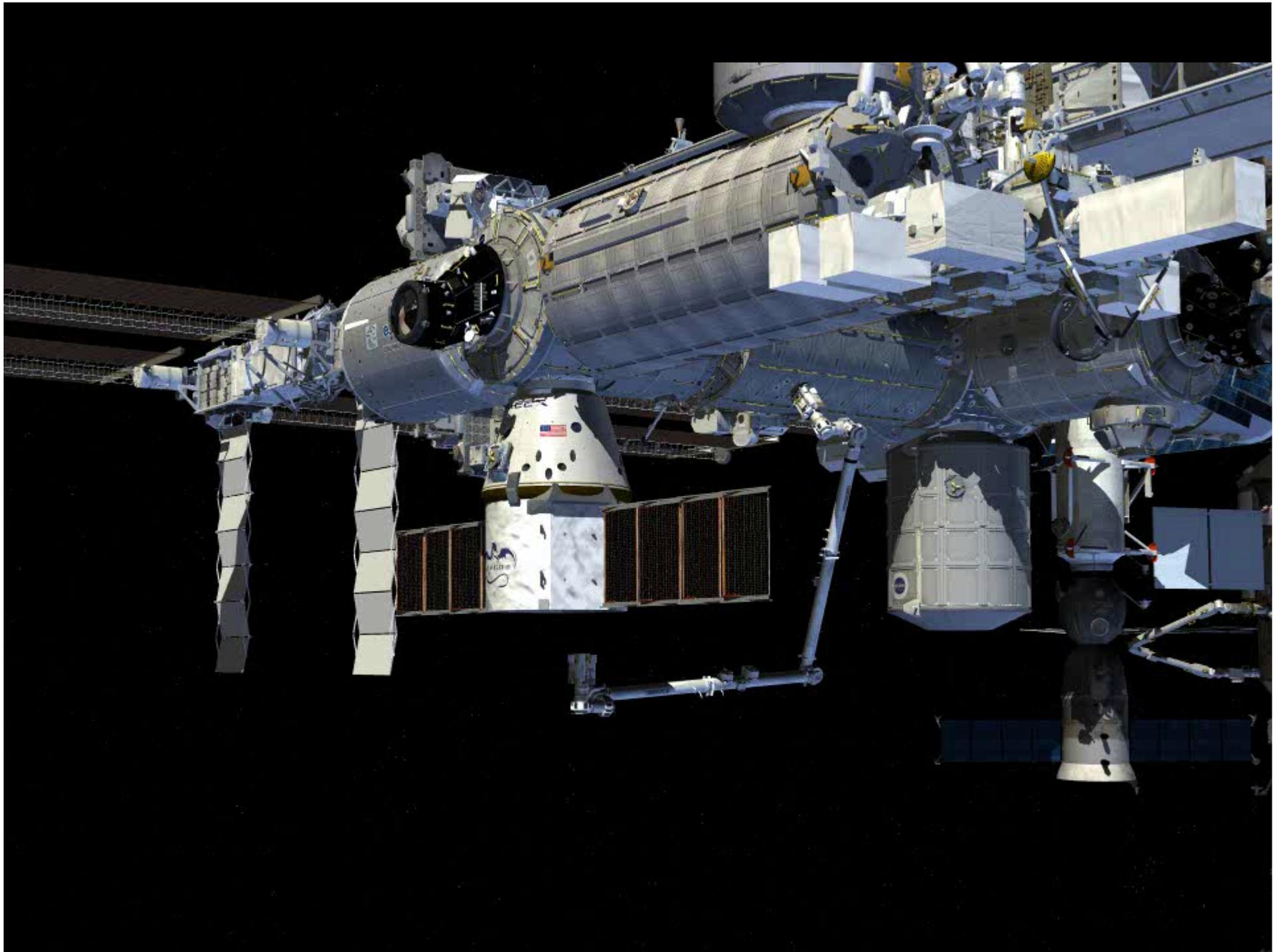


# Genesis II Surprise



# BEAM Me Up



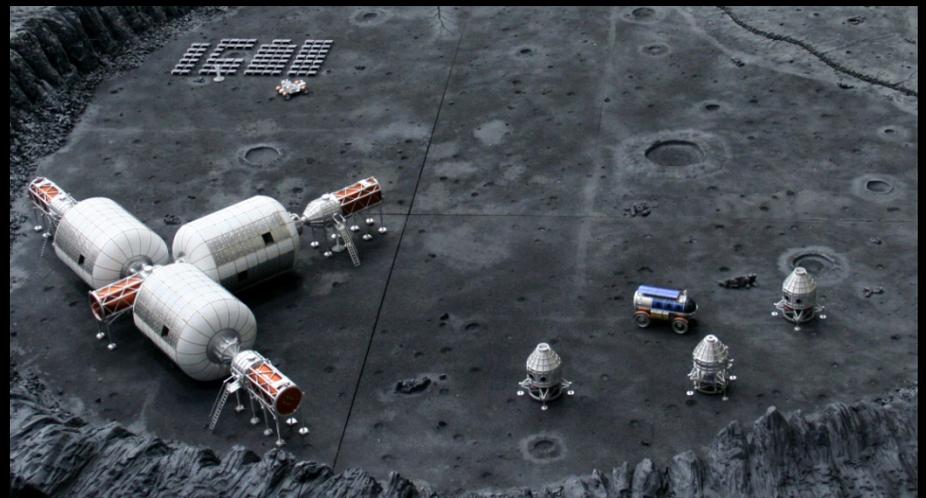


# BA 330



# Beyond LEO Exploration

- Volume
- Radiation
- Physical Debris
- Trace Contaminants
- Less Mass
- Less Money





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The logo features the word "BIGELOW" in a bold, italicized, sans-serif font with a red-to-orange gradient. A stylized rocket is integrated into the letter "I". Below it, "AEROSPACE.COM" is written in a smaller, white, sans-serif font. The background is black with a blue gradient at the bottom left and several white dots representing stars. In the bottom left corner, there are three blue curved lines representing orbital paths, each with a small blue circle at its end.