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for Universal Opportunities

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United Launch Alliance

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United Launch Alliance

Tony Taliencich
Director of East Coast Launch Operations



ULA's Mission



Save Lives, Explore the Universe, Connect the World



Customers

National Security Space



Global Positioning System (GPS)



Intelligence, Surveillance and Reconnaissance



Secure Communications



Civil Space

Robotic Exploration and Science



Mars Science Laboratory



Pluto New Horizons

Increasing Our Knowledge of the Earth and Its Climate



Cloudsat



Aquarius



Geostationary Operational Environmental Satellite (GOES)

Commercial Space



Earth Imagery



Commercial Communication



America's Ride to Space

Space Transportation LEO to Pluto

LEO to Pluto

Sun/Moon/Planets

31,700 mph

HEO

Highly Elliptical Orbit

GSO

Geosynchronous Orbit

GTO

Geosynchronous Transfer Orbit

MEO

Medium Earth Orbit

LEO

Low Earth Orbit

32,000 lbs Max

65,000 lbs Max

19,800 mph

Small Spacecraft		
Medium Spacecraft		
Intermediate Spacecraft		
Heavy Spacecraft		



America's Ride to Space

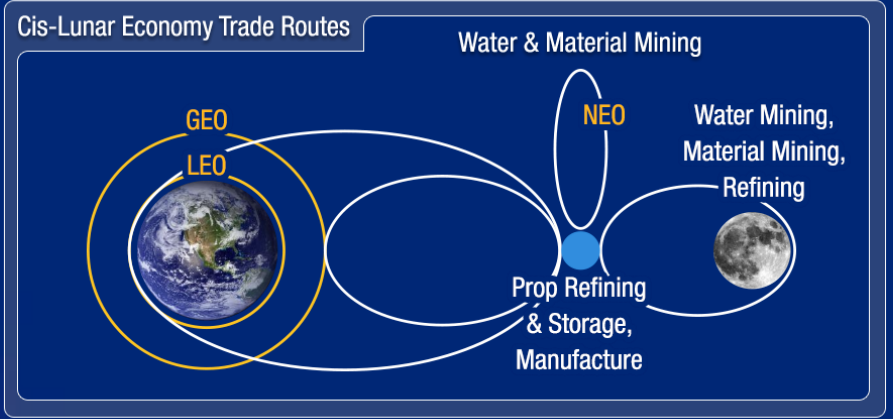
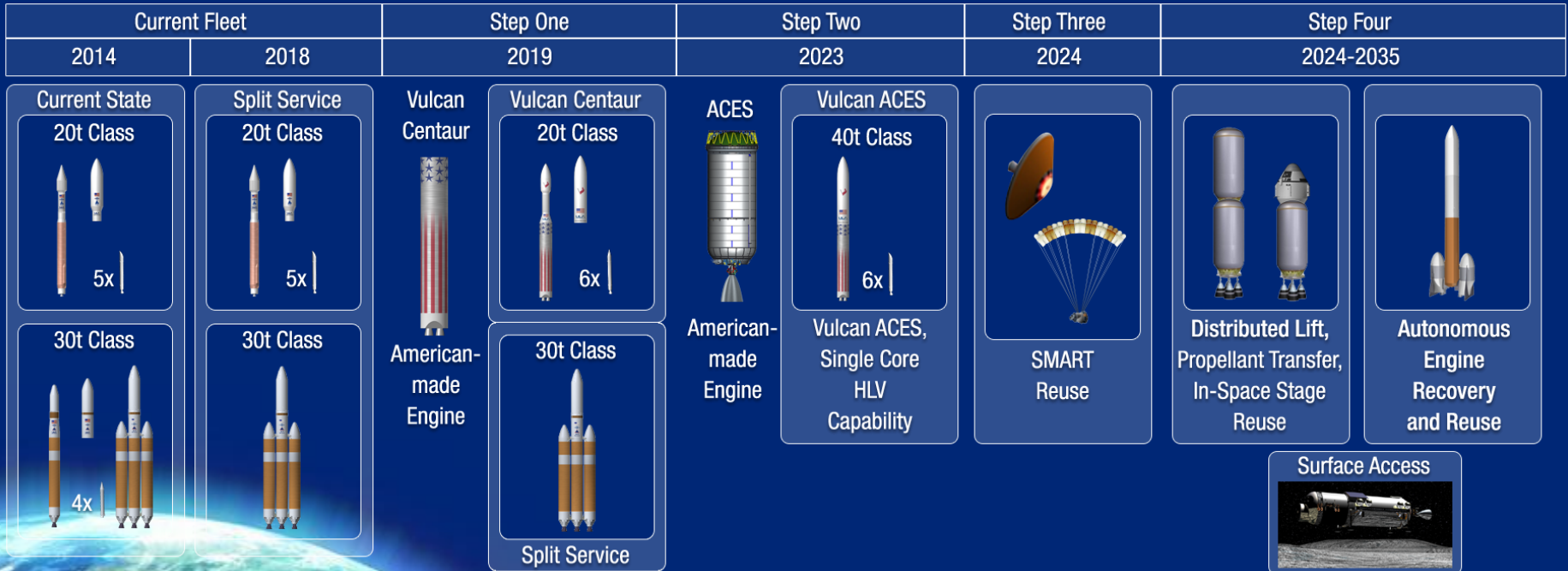
Commercial Crew Program





America's Ride to Space

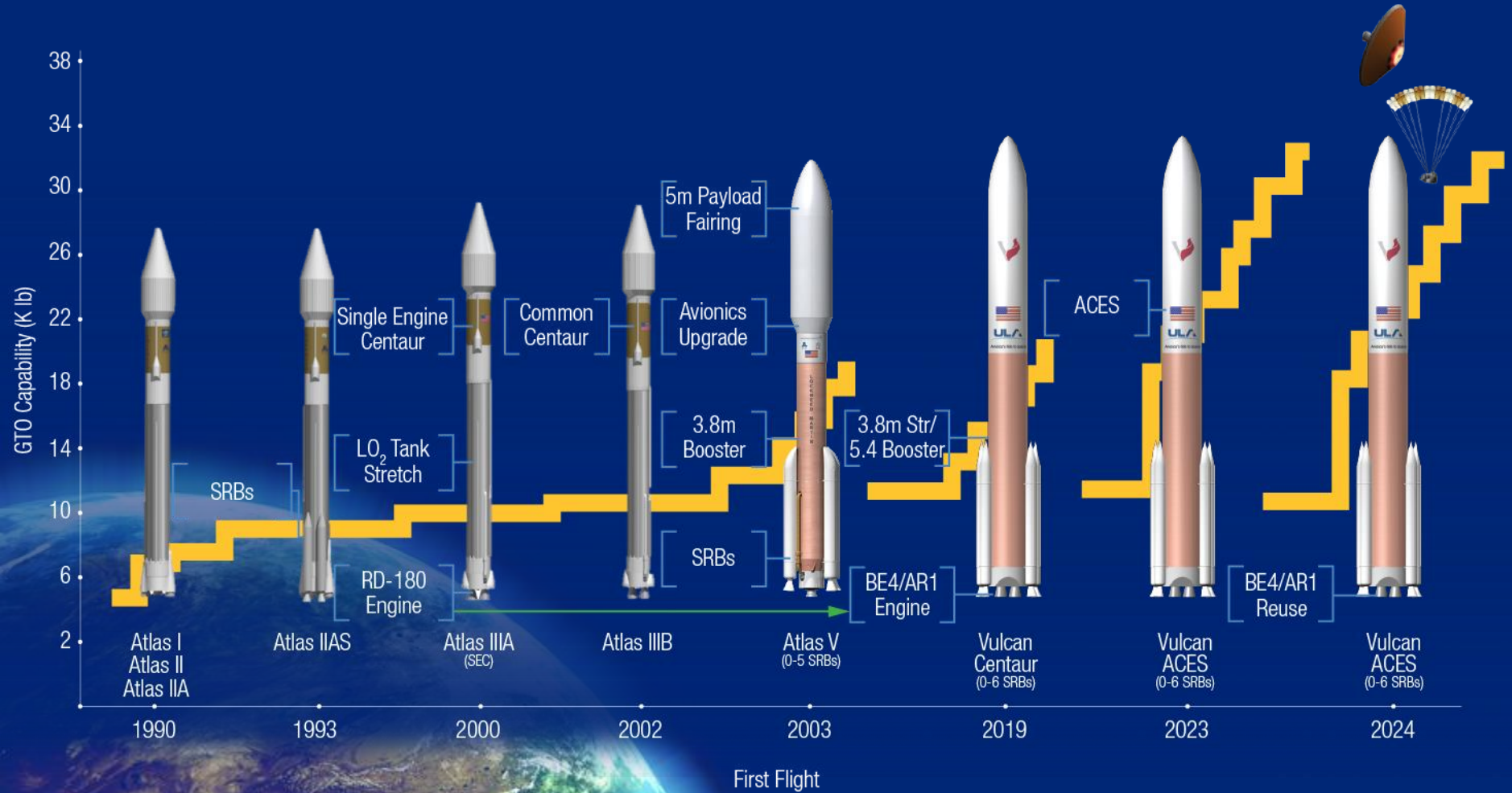
Product Evolution





America's Ride to Space

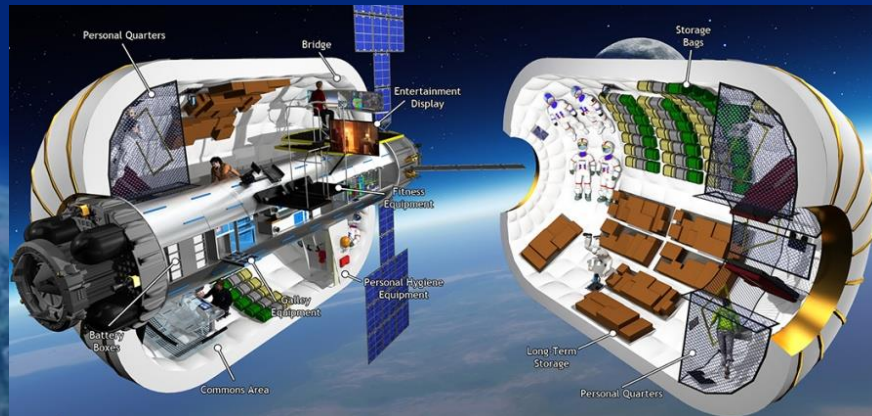
Atlas and Vulcan Centaur/ACES Evolution



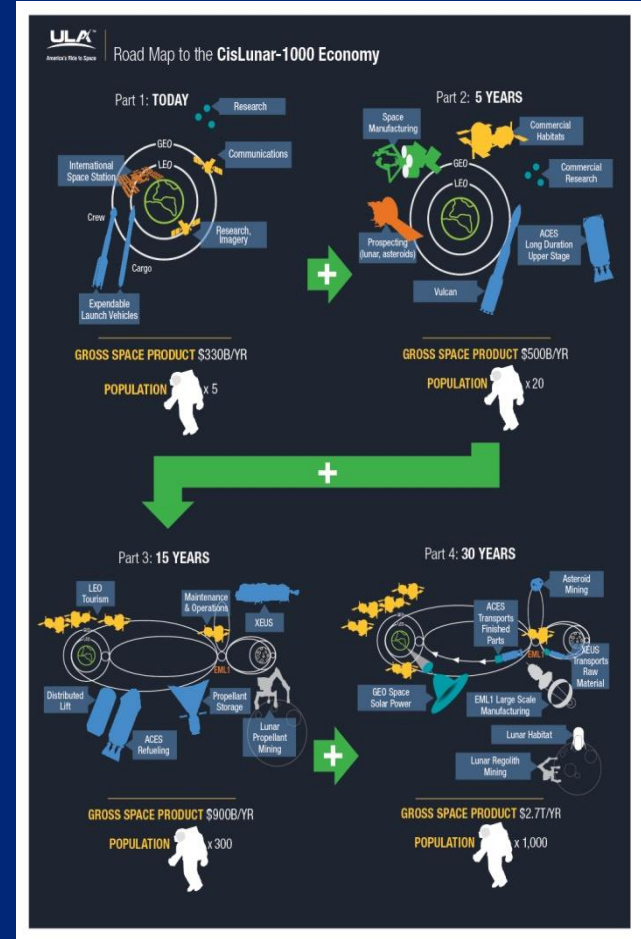


America's Ride to Space

The Future



Source: bigelow aerospace.com





Mission Success...106 and counting!



One Launch at a Time