

Introduction

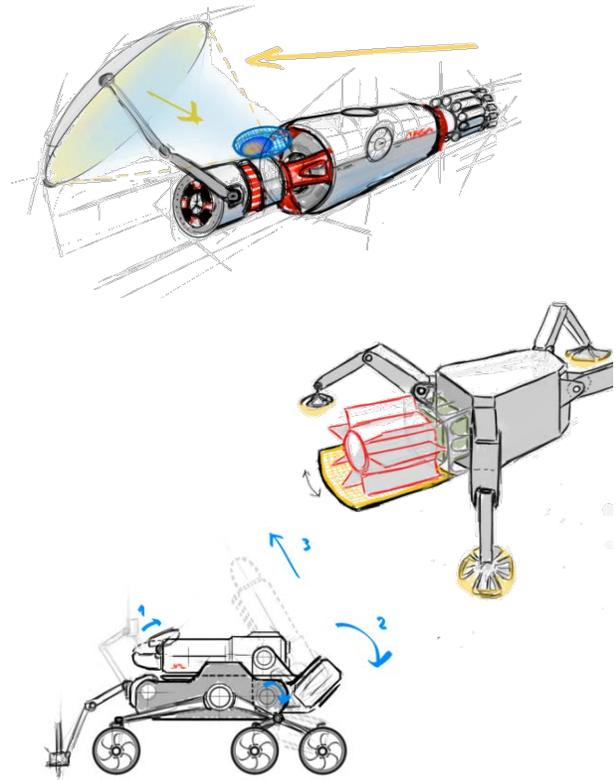
Tom Cwik

JPL, Caltech

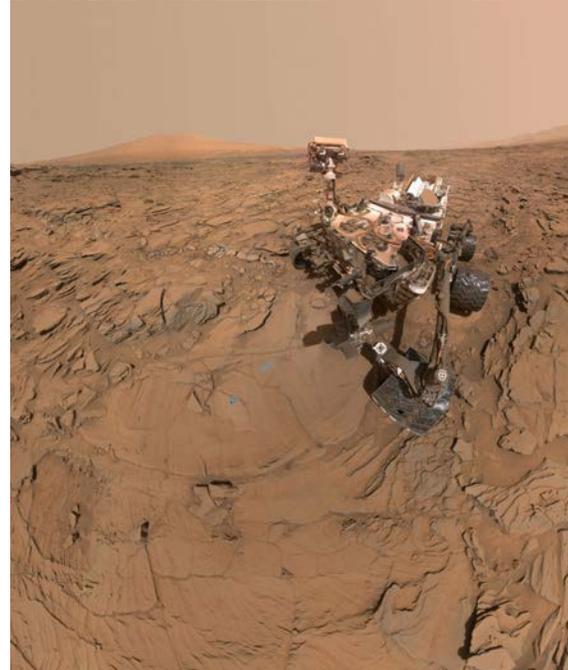
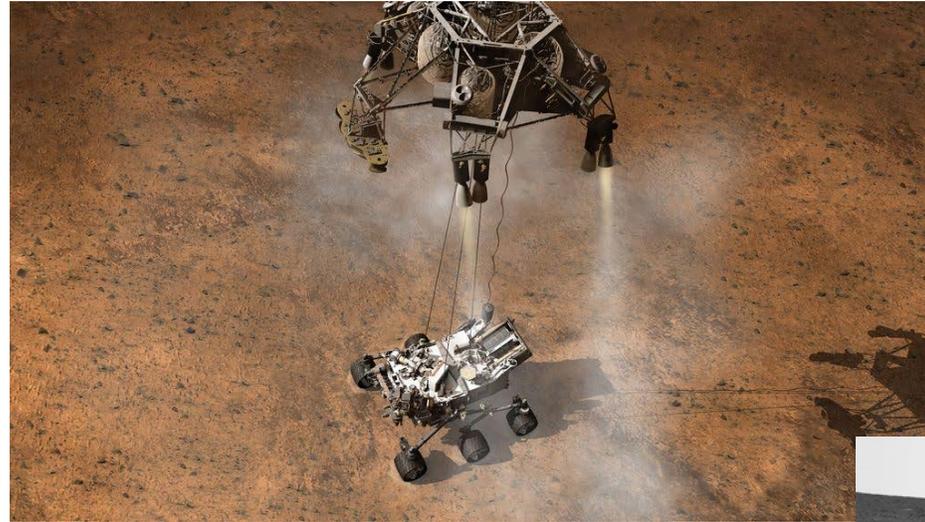
Pasadena CA 91011

SxSW March 14, 2017

From engineering sketches, to the reality, to the dream



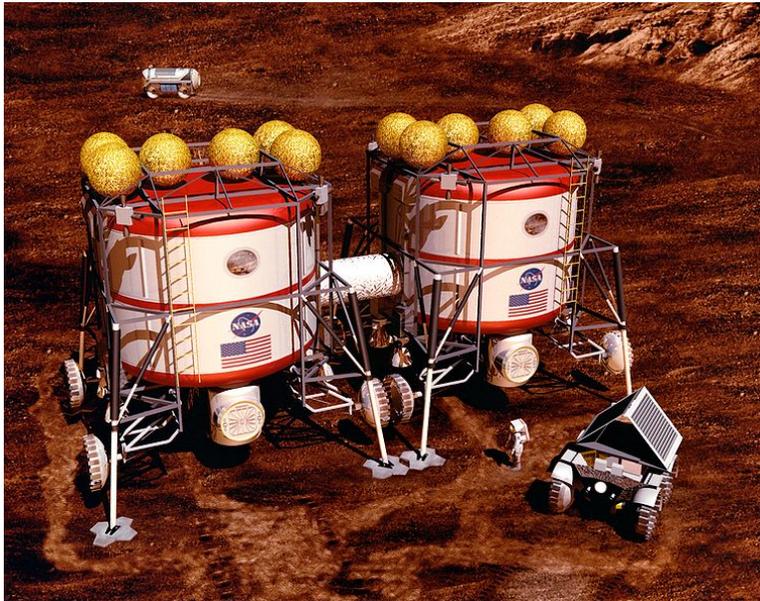
Sketches by Raul Polit-Casillas
JPL Atelier



Skycrane and Curiosity

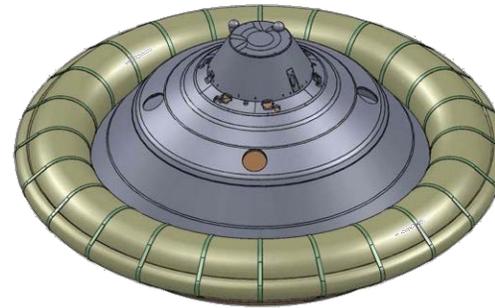


To get Matt to Mars, we need to land a lot of stuff

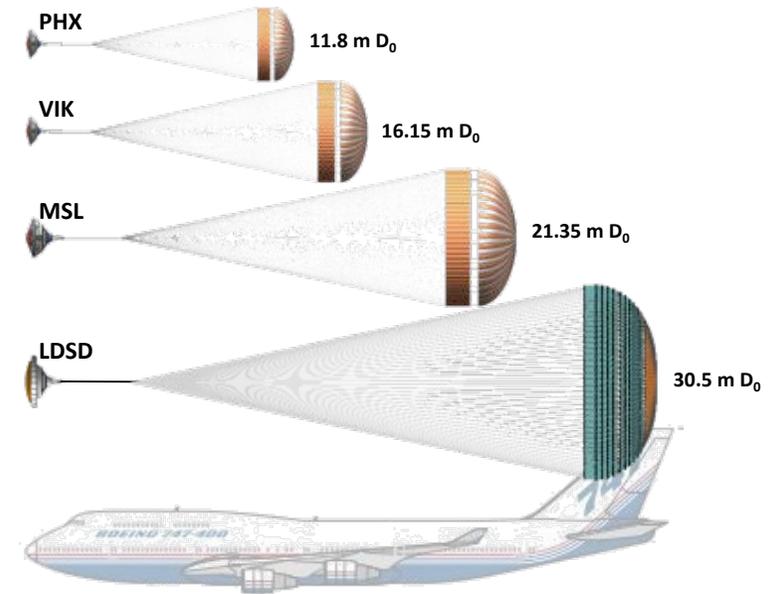


Artist's Concept

Getting living quarters on the surface requires

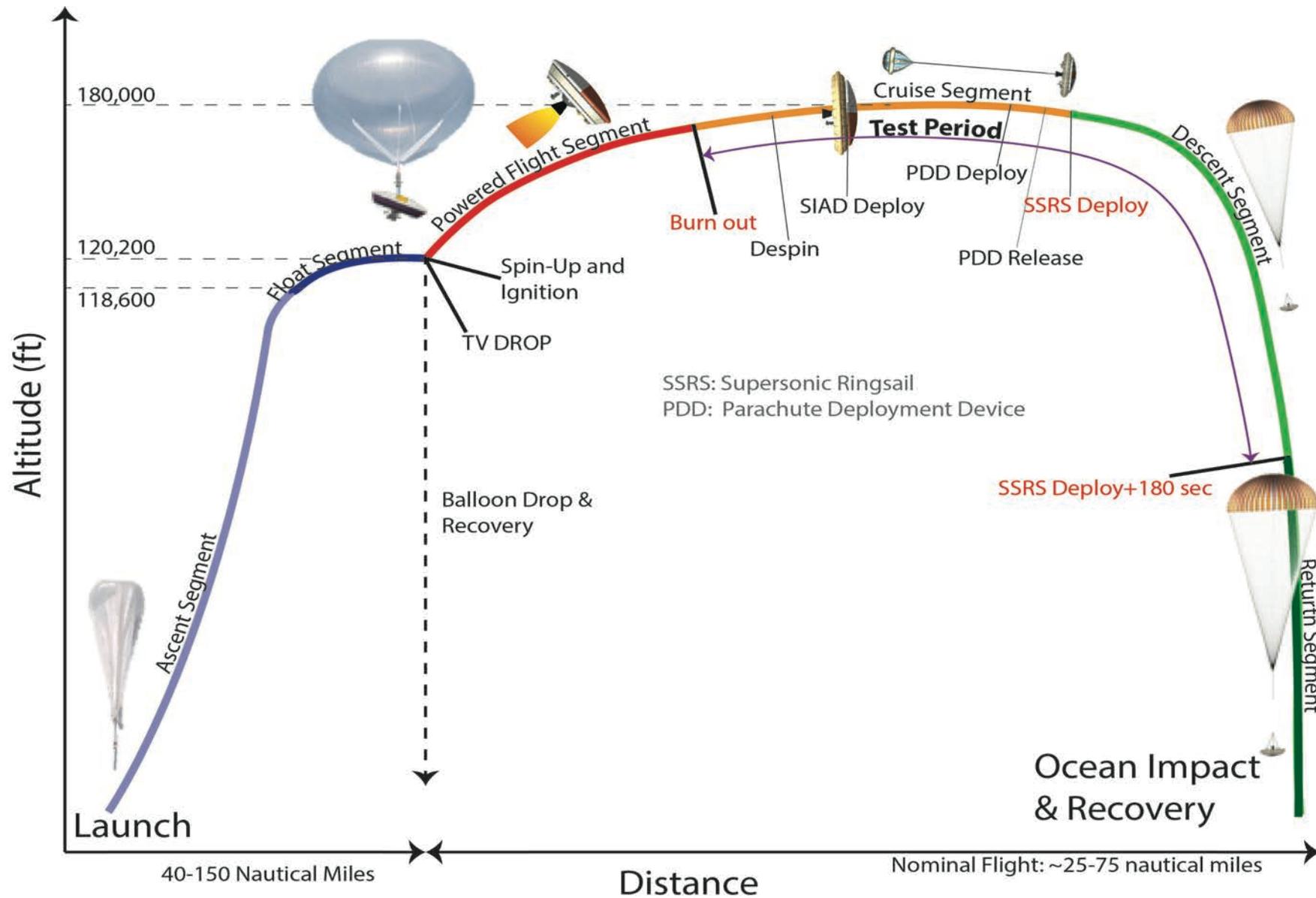


... a bigger heat shield to get into the atmosphere



... and a bigger parachute to slow down

It is rocket science



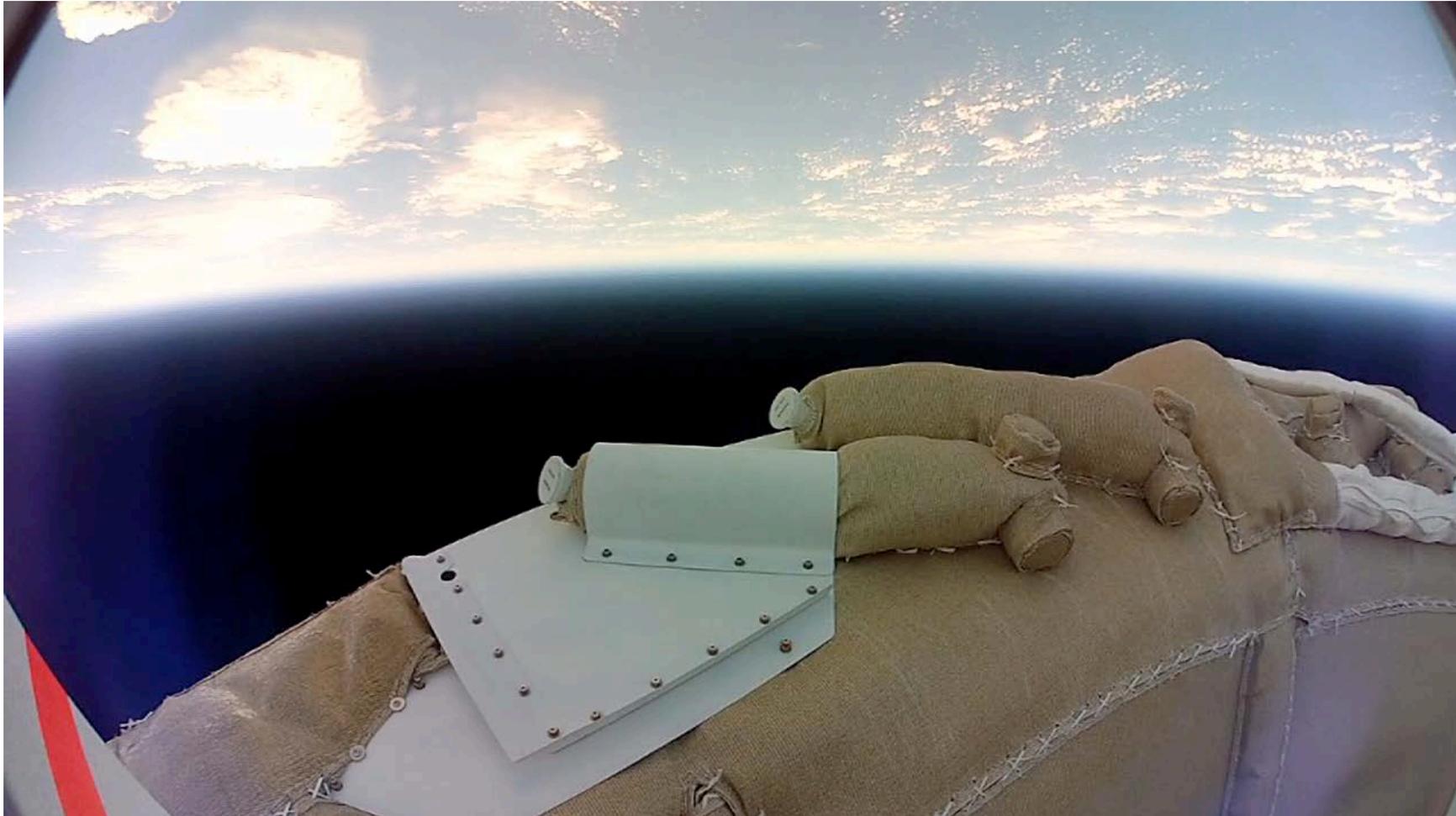
It's always about the people



NASA JPL picture from https://www.nasa.gov/mission_pages/tm/ldsd/index.html

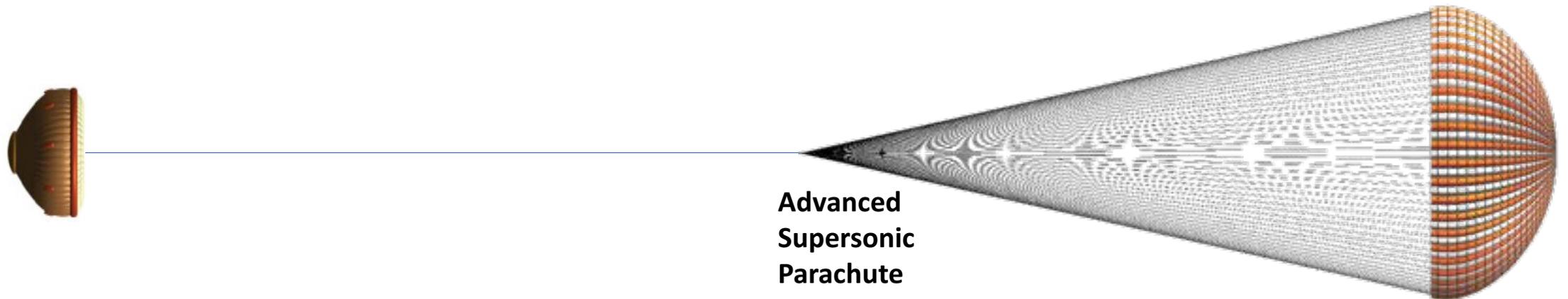
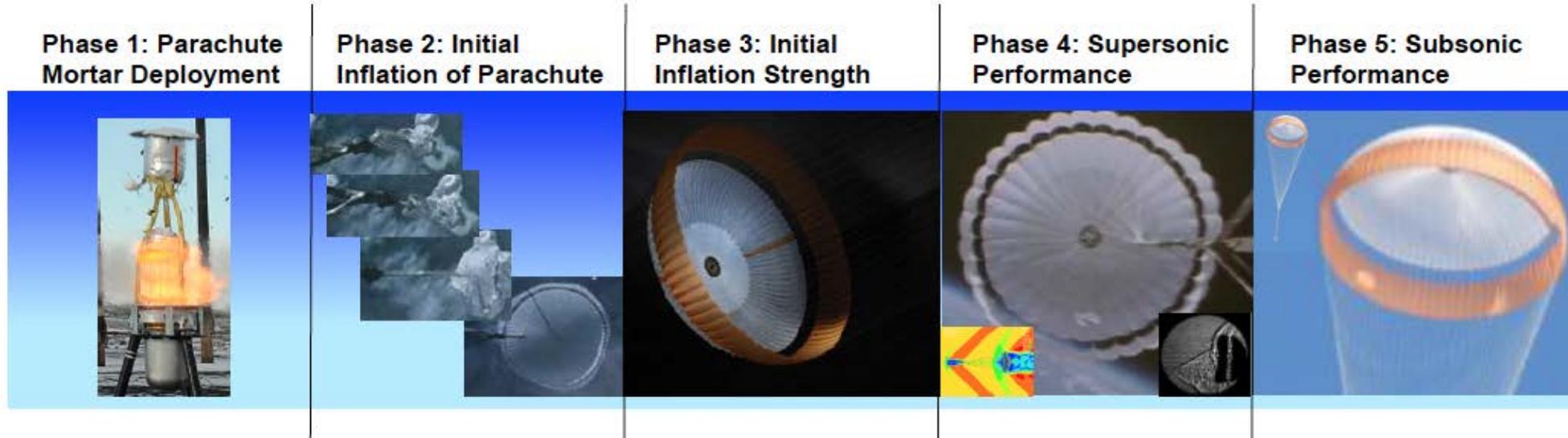
Mark Adler PM, Ian Clark PI and the team - JPL

That same ground test but now in space ... success!

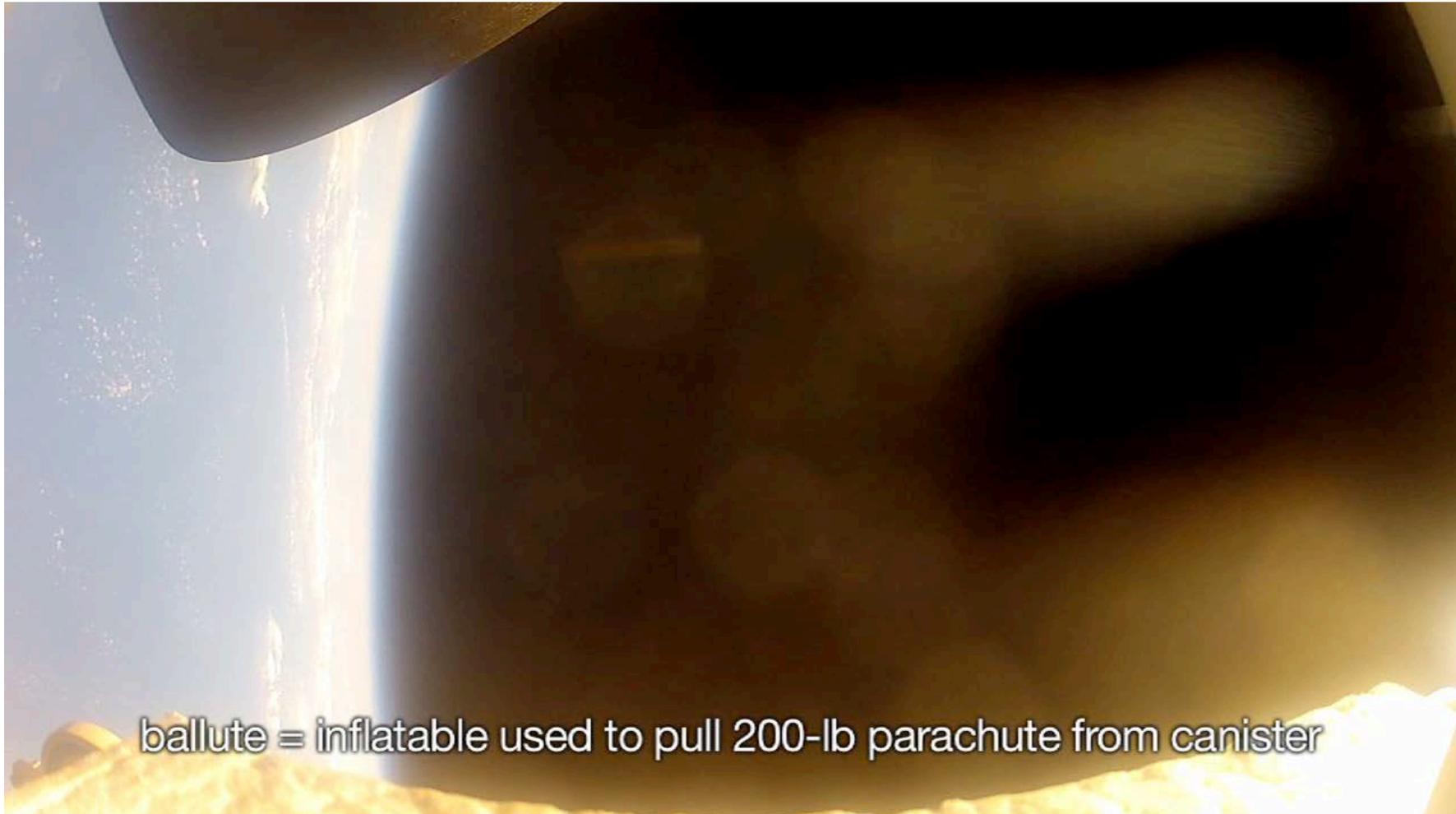


NASA JPL Video from https://www.nasa.gov/mission_pages/tdm/ldsd/index.html

Planning and modeling and then go test



Testing the new big parachute ... we learned alot



So we need to rethink

