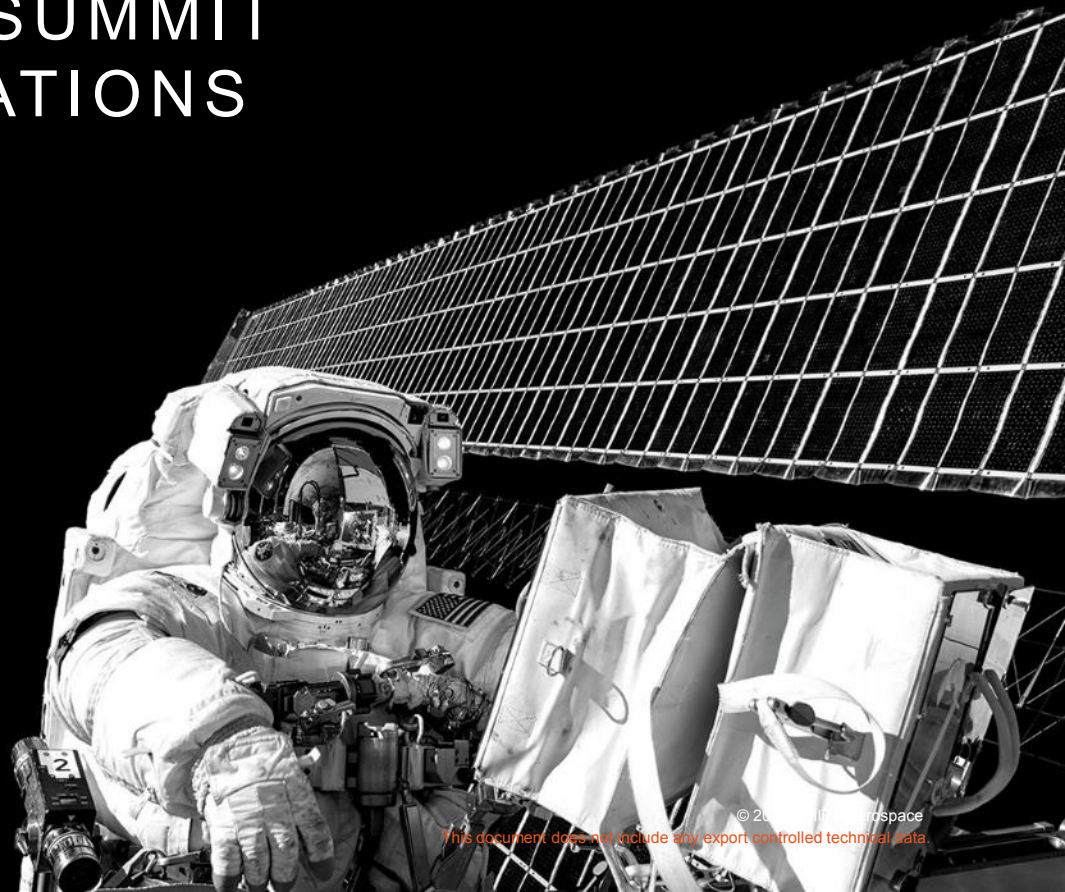


HUMANS TO MARS SUMMIT EVA SUITS & OPERATIONS

GREGORY QUINN, PH.D.
SEPTEMBER 15TH, 2021



OUR NEW ENGINEERING CHALLENGES

HOW DO WE DESIGN BETTER SPACE SUITS?

- Safer space suits
 - Necessary as EVA's become more frequent
 - Enable greater flexibility in con-ops
 - Allow more users with less ground support
- Enhanced capabilities
 - Less time maintaining and prepping for EVA, and more time out the door
 - Rich digital data stream available to the wearer
 - Seamless part of the exploration ecosystem, including data, tools, robots, and vehicles
- Readily adaptable to multiple platforms
 - ISS
 - HLS
 - Gateway
 - Commercial