HUMANS TO MARS SUMMIT
EVA SUITS & OPERATIONS

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What’s driven each of us to reach toward Mars?
- A children’s book
- The thrilling success of a small robot (Pathfinder)
- A pinnacle of engineering challenges

A technology focused path
- Life support
- Systems engineering and development
- NIAC Chameleon Suit Study
- Field research and Informatics
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