



The Center for the Advancement of Science in Space

*Commercial Space  
Transportation Advisory  
Committee*

*Business & Legal Working Group*

*16 September 2014*

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# MISSION

## Maximize Value of ISS NL through R&D and STEM

- △ Based on U.S. National needs for Basic and Applied Research
- △ Stimulate and Manage use by OGA's, Academic, and Commercial Interests
- △ Communicate the Value

## In Cooperation with NASA

- △ Transportation
- △ Manifest
- △ Int'l Partner Services
- △ Gov't Rights

# BUSINESS DEVELOPMENT



## Fulfill Fundamental Science Questions

- △ CASIS grants
  - Quarterly release
  - Seed funding for customers
  - NASA supports “Space” costs

## Stimulate Commercial Utilization

- △ Strategic Capture Plan - Fortune 500's with R&D focus
  - Life Science and Biotech – Pharma, Therapeutics/Diagnostics
  - Materials Science – Open opportunity, physics of microgravity
  - EO/Remote Sensing

# BUSINESS DEVELOPMENT



## Stimulate Commercial Utilization

### △ Sell the Value Proposition

- First in Industry
- First to Market
- Capitalize on the subsidized opportunity
- Realize access to Space
- Realize the Brand opportunity

### △ Create a Marketplace for Opportunities

- Look for innovative, risk tolerant businesses
- Fully vet the R&D
- Engage appropriate Fund Source

# CONTRACTING

## △ CASIS issues Grants

- Federal Funding drives Terms & Conditions
- Gov't may exercise rights to IP and data

## △ CASIS enters into User Agreements

- NASA Administrator can waive Gov't rights
- 2015 Authorization may further protect IP and data rights
- To be tested

## △ Cross waiver of liability is passed to Awardee

## △ ISS Certification and CoFR issued by NASA

# OPPORTUNITIES

## **NASA continues to support “seeding” of the marketplace**

- △ Space integration cost support
- △ Relaxation of Gov’t rights
- △ Supporting efforts to extend beyond 2024

## **Commercial Interests in ISS Utilization are emerging**

- △ Biotech is largest vertical
- △ Tech Demo
- △ Material/Physical Science
- △ Remote Sensing

# CHALLENGES

## Transportation

- △ Limited up
- △ Severely limited down
- △ Legacy constraints

## Analytical Capabilities

- △ Behind State of the Art
- △ Requires non-traditional science design

## Crew Access and Procedures

- △ Limited
- △ Requires evaluation



CASIS™

