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# Information Technology for Science Missions

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# Disclaimer

The NASA SBIR/STTR subtopic workshop was held for informational purposes only and was an opportunity for the small businesses community to explore and share ideas related to the general technical topic areas.

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# Understanding of Earth, astrophysical systems, aerospace

3

- ▶ Simulation
  - ▶ high-end computing
- ▶ Data
  - ▶ Observational, model, and/or simulation data
  - ▶ Transform into useful science, societal benefits
- ▶ Missions
  - ▶ Modeling for mission design
  - ▶ Decision support
- ▶ Generally: Information Technology to let humans spend more time doing science, less time doing “grunt work.”

# Why SBIR?

- ▶ Information Technology is widely used and developed
  - ▶ Universities
  - ▶ Small businesses
  - ▶ Large businesses
  - ▶ Research labs
- ▶ Many developments can be used for multiple problems, problem areas
- ▶ Desire for increased collaboration between government and businesses in “innovation space.”
- ▶ Science data and information have minimal sharing restrictions

# Resources

- ▶ NASA Science Mission Directorate: <http://science.nasa.gov>
- ▶ NASA's Earth Science Technology Office (ESTO): <https://esto.nasa.gov>
- ▶ NASA Earth Exchange: <https://nex.nasa.gov/nex/>
- ▶ NASA High-End Computing Program: <http://www.hec.nasa.gov>