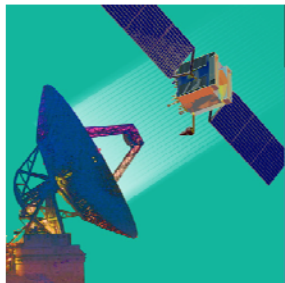


# Working Group Preview

## Ground System Architectures Workshop



Session 11D

Cost Cloud Computing for Ground Systems VI

*Ramesh Rangachar and Craig Lee,  
The Aerospace Corporation*

# Executive Summary

- Cloud computing has brought a fundamental shift in Information Technology Management
  - *This is having a great influence on innovation, implementation, procurement, and utilization of ground systems*
- The convergence of Cloud Computing and Big Data provides significant competitive advantages for the users of these technologies, has revolutionized industry practices, and given rise to new business opportunities
- The working group consists of:
  - *Presentations on Cloud Computing and Big Data Analytics in ground systems*
  - *Discussions on the impacts of cloud computing and Big Data on ground systems*
  - *Demonstration of Cloud Computing Technologies*



# Working Group Format

- Presentations on cloud computing and Big Data for ground systems
- Discussions on:
  - *Use of Cloud Computing in Ground Systems*
  - *Use of Big Data Analytics in Ground Systems*
- Demonstration of Cloud Computing Technologies



# Key Questions

- What are the key mission requirements for the adoption of cloud computing for ground systems?
- What are the enablers required for cloud computing in ground systems to become a reality?
- What are the benefits and challenges to the adoption of cloud computing for ground systems?
- How does the convergence of cloud computing and big data impact ground systems?



# Agenda

Title	Presenter	Organization
Introduction	Ramesh Rangachar	The Aerospace Corporation
Cloud-based Open Architecture approach for Common Enterprise Ground Services	Tom Vanek	Booz Allen Hamilton
Cloudy Ground: An Overview of ESA Cloud Computing Initiatives for Ground Data Systems	Mehran Sarkarati	ESA
Next Generation Cloud Based Ingest & Processing Framework for Environmental Data	Rich Baker	Solers, Inc.
Enabling Data and Computational Science Capabilities for Future Missions and Research	Daniel Crichton	NASA/JPL
Discussion: Cloud Computing Solution for the Enterprise Ground System		
Demo: Bridging Silos - A Demonstration of Federation Management Using the KeyVOMS Prototype Craig Lee, The Aerospace Corporation		

