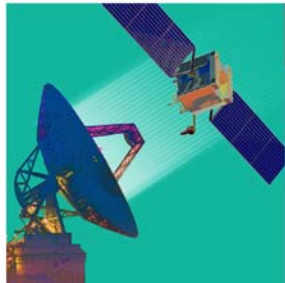


Working Group Outbrief

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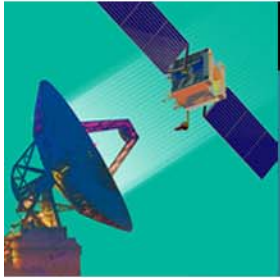


Session 11F

Cost Estimation for Next-Generation Ground Systems

Jim Alstad, Barry Boehm, University of Southern California, Center for Systems and Software Engineering

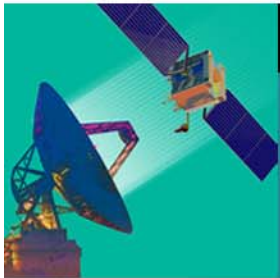
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Session Goals

- Move forward on developing the ground system part of COSATMO (USC's satellite system cost estimating model)

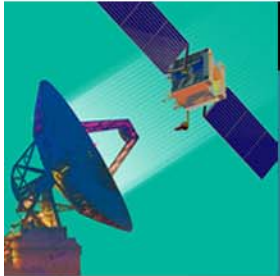
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Presenters/Panelists

Start Time	Speaker	Affiliation	Topic
1:00	Barry Boehm	USC CSSE	Participant Introductions
1:10	Barry Boehm, Jim Alstad	USC CSSE	Current and Future Challenges for Ground System Cost Estimation
2:00	Kim Bell	The Aerospace Corporation	Ground Systems Cost Estimation: Modeling Ground Systems in the Aerospace Concept Design Center (CDC)
2:20	Ray Madachy	Naval Postgraduate School	Issues in Total Ownership Cost Modeling for DoD Systems
2:35	Phyllis Marbach	Boeing Defense & Space/Security	Affordability Case Study of a Ground System Program

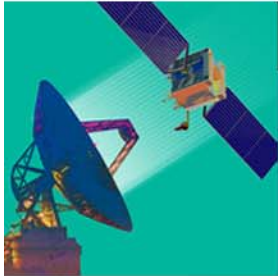
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Key Points

- Experts in Working Group identified these parts of COSATMO:
 - 5 submodels related to ground system cost
 - For each submodel:
 - A reasonable set of cost drivers
 - Identify which act like a “size”
 - Identify which cost drivers are expected to be the important ones
- Also identified a few related issues

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Conclusions

Here are submodels with most important cost drivers (“(s)” indicates size-like):

- Initial development of software:
 - (Probably already covered by COCOMO II, COCOTS, COPLIMO)
- Initial development of prime mission equipment:
 - Amount of new development required, # PME sites (s), required site availability & reliability
- Initial development of (other) facilities
 - # facilities (s), location of facilities (especially US vs foreign)
- Operations & support
 - # years of operation (s), # FTE staff (with labor mix) (s)
- System-level
 - Accreditation (IA, etc), required security (especially cross-domain)