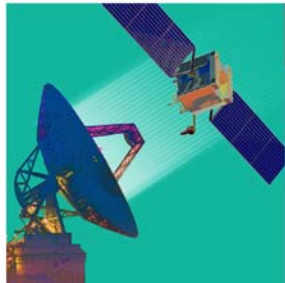# Working Group Outbrief

Ground System Architectures Workshop
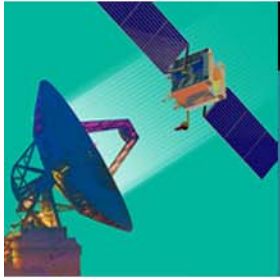
Session 11D

Cost Estimation II for Next-Generation Ground Systems

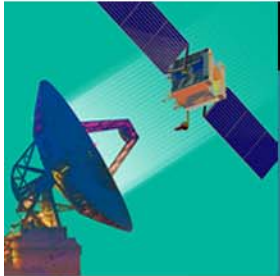*Jim Alstad and Barry Boehm, University of Southern California*

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Session Goals

- Present current COSYSMO 3.0 estimating model
- Execute Delphi process to gather expert input on model parameters
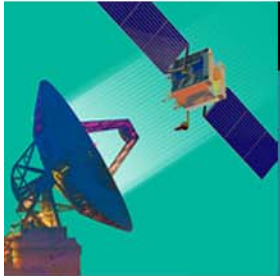- Fill in values for an example project

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Presenters/Panelists

- Barry Boehm, "Current and Future Challenges for Ground System Cost Estimation"
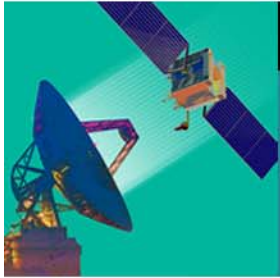- Jim Alstad, "Developing the Harmonized COSYSMO 3.0 Model Including the Coalesced Effort Multiplier Submodel"

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Key Points

- Knowledge about estimating system engineering costs is a specialized field
    - In particular, it's hard to estimate parameters for the model
- Hard to do both a tutorial and an exercise during 4 hours.

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Conclusions

- The importance of estimating system engineering costs varies from organization to organization.
  - Also from situation to situation (development vs acquisition, etc)
- Might need to have different sets of parameters for different types of systems (different application areas, different type of projects).
- A learning curve is needed for this model
  - Two experienced estimators were able to use our new model for estimating Understanding (with expert help) reasonably expeditiously.

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