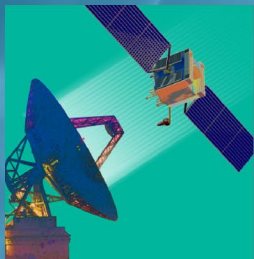


Working Group F Outbrief



Ground System Architectures Workshop Driving Innovation for Enterprise Integration

February 23–March 3, 2022 | Virtual Event

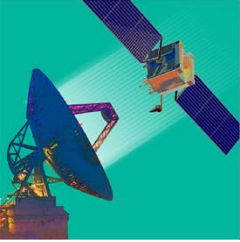
Best Practices for Model Portfolio Management Workshop

*Leads:
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The Aerospace Corporation*

March 1, 2022

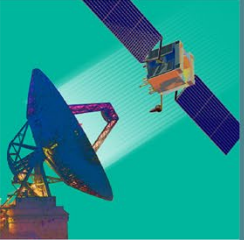
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Session Goals

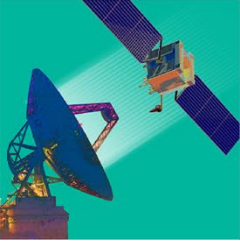
- Gather a collection of experiences, including lessons learned and practices for adopting and implementing Model Management for space mission ground systems.
- The resulting summary of practices and lessons learned will provide guidance and awareness to help organizations develop strategies and implement practices that are appropriate for different organizations pertaining to Model Management.



Presenters/Panelists/Participants

Misak Zeitlyan, Jordan Howie, Aidan LyDay, Alejandro Lorenzatto, Alvaro Ortiz, Celestino Garcia, Griff Lee, Jason Figueroa, Jermaine Brinson, JohPaul Mozee, Maria D'Agostino, Michelle Carter, Nancy Thurlow, Tim Tosney, Micah Pile

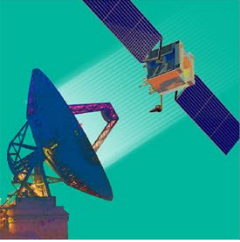
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Key Points/Conclusions/Recommendations

- The need for guidance on model development and model management is needed
- Recommended to update the definition of a Model Portfolio to:
 - “A collection of models (whether descriptive or analytical, related or otherwise) where the evaluation of that collection has been identified as being significant to mission accomplishment/enterprise management.”
- Model Portfolio Management Plan must:
 - Establish and make available common set tools
 - Define common best practices, symbology, and shared terminology
 - Establish a common metamodel for descriptive models
 - Establish a common metamodel for descriptive models, establish modeling standards, governance (change management, configuration management)
 - Define the type of data needed to validate the models as a trusted sources of truth
- Model Portfolio Management is needed at the program and portfolio levels

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Key Points/Conclusions/Recommendations

Continued

- Model Portfolio entry criteria should include:
 - Models that have been assessed according to a standard and meet maturity criteria
 - Models that bring some benefit to mission accomplishment/enterprise management
 - Waiting until the model is complete would keep out too many - most models will evolve over time
- The MPM Guide should be a model can be tailored used to generate the MPM Plan as a document.
- Usage structure and circular project references are issues when it come to characteristics (metadata/attributes) of a model that determine its maturity for integration.
- Model Portfolio measures of performance should include:
 - Number of projects the models are used on
 - How many decisions are made using models in the portfolio
 - How many Curse of Actions (COAs) were generated