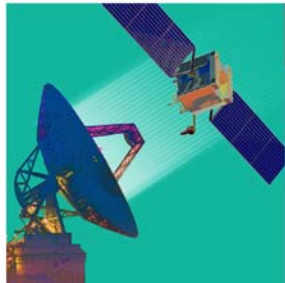


Working Group Outbrief

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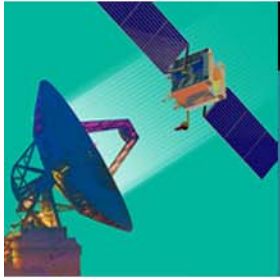


Session 11E

Adopting Agile Ground Software Development

Supannika Mobasser, The Aerospace Corporation

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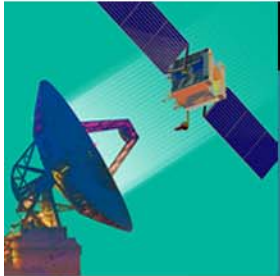


Session 11E

Participants

- Tim Abel, Aerospace
- Hamad Alhazami, MBRSC
- Mahmood Al Nasser, MBRSC
- Patrick Barnies, JETSI
- Sheri Benator, Aerospace
- Andrew Borden, Aerospace
- Justin Boss, Kratos
- Steve Butler, ASRC Federal
- Jay Bugenhagen, NASA-GSFC
- George Davis, Emergent Space Technologies
- Carl Frustton, r3Space Consulting
- Fred Hanck, Digital Globe
- Haisam Ido, KBR Wyle
- Ron Jones, ASRC Federal
- Sharon Orsborne, NASA-GSFC
- Paul Swenson, ASRC Federal
- Curt Holmer, Aerospace
- Joe Kennedy, General Dynamics
- Che-I Lien, Aerospace
- Joanna Li, Aerospace
- Sue Mobasser, Aerospace
- Dewanne Phillips, Aerospace
- Kanshik Shal, Aerospace
- Adam Waller, Exigo Corp

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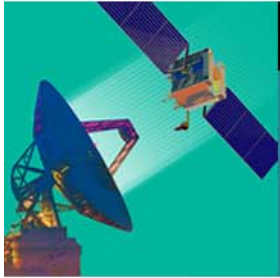


Session 11E

Schedule

Time	Presentation and Discussion
1:00 – 1:30pm	Session Overview
1:30 – 2:15pm	“Smashing the Stovepipe” Paul Swenson, ASRC Federal Space & Defense
2:15 – 3:00pm	“GMSEC Services Suite - An Agile Development Story” Vuong T. Ly, GSFC, NASA
3:00 – 3:15pm	Break
3:15 – 4:00pm	“Re-visit Agile Lessons Learned from previous GSAW” Supannika Mobasser, The Aerospace Corporation
4:00 – 5:00pm	General discussions <ul style="list-style-type: none">• Agile Acquisition Models<ul style="list-style-type: none">• Milestones and Deliverables; Roles and Responsibilities• Agile and other disciplines<ul style="list-style-type: none">• MBSE, hardware-intensive subsystem, accreditation, etc.• How to measure success• Trust management

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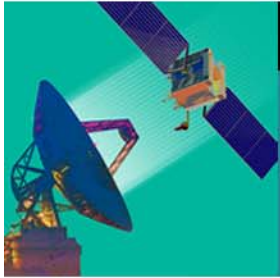


Session 11E

Pain points on Agile

- Balancing between rigor and agility
- Cultural changes, adjustment, resistance
- Expectation management
- How to show progress & how to do measurements
- Not quick enough turn around time
- Work only when the team is ready
- Pain from optimization
- Switching midstream
- Misuse of Agile

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Session 11E

Agile roles

- Scrum master, product owner, development team
- If government is the PO – need continuous commitment
- Agile coach
- Subject matter experts, users
- Overarching system engineer
- Integration team
- Testing :
 - Integration testing, enterprise/operational testing
 - Multiple level of regression testing

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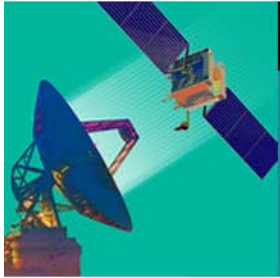


Session 11E

What does agile leadership look like?

- Willing to change / flexible
- Able to accept failure
- Have right people on the right seat
- Great communication
- Recognize different ways to measure progress/ productivity
- Speak in common currency
- Support team dynamic
- Know what to look for
- Delegate well

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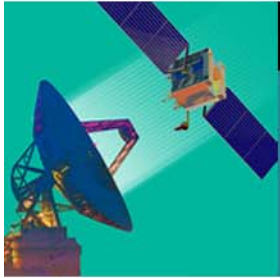


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Metrics / How to measure success?

- Working SW / business value
- Trend rather than individual / day-to-day metrics
- Does not have to be numbers
- Team happiness
- % on track, %late, % not started
- Predictability vs Productivity
- Tie metrics to program success (big picture)
- Personnel turnover

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Session 11E

Trust Management between government and contractors

- Honest communication, open dialog, no surprise
 - What works, what doesn't work
 - Roadblocks, decisions
- Professionalism
- Joint success culture
- Need time : typically around one year
- Integrated demo when appropriate
- well-informed reduce micro management
- Level of shared information depends on what you need to see
- If not useful, stop doing it