ASIP 07 Conference

TEAM TINKER



Data needs for application of CBM+ tenants to ASIP 5 Dec 07

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Data needs for application of CBM+ tenants to ASIP

- Backdrop
- What is CBM+?
- What can it do for ASIP?
- What does the AF need to make CBM+ a reality?



Backdrop









- DoD & AF backdrop
 - Maintenance costs and growth rates
 - New opportunities
 - Fleet age and condition

Manage Risk and Reduce Costs



DoD field-level maintenance, is estimated \$54 billion annually





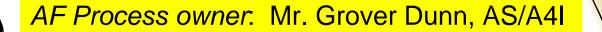
DoD depot-level maintenance, is estimated \$27 billion annually





What is CBM+?

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- Condition Based Maintenance + (CBM+, DoD Charter)
 - Maintenance performed on evidence of need
 - Apply appropriate processes, technologies and knowledge-based capabilities to improve maintenance effectiveness
 - +' Use systems engineering approach to support decision making for acquisition, sustainment and operations





What does the AF need to make CBM+ a reality?

- Understand our systems
 - Good models
 - Right data
- Make informed decisions
 - Cost benefits analysis
 - Risk management
 - OSS&E



Data needs for application of CBM+ tenants to ASIP



- What is needed?
 - Efficient Data Capture
 - Accurate
 - Timely
 - Minimal manpower

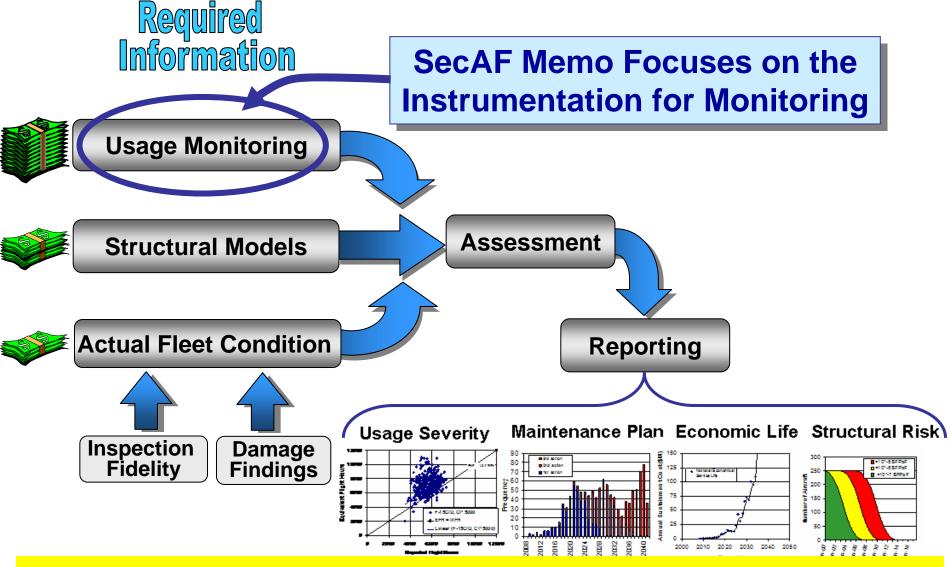
Automated Generation- as you go!

- Data Access
 - ECSS-S, Developed establish data management capabilities
 - Logistical, Mission, Maintenance, Finance, Personnel Systems and Process Models

Right data to the right people!

Empowers Sound Decision making

Using ASIP to Accurately Anticipate Structural Failures



Continuous process improvement for all Weapons Systems



CBM+ Challenges



- Legacy aircraft: Business case driven
- Sensors: Technology development driven
- Physics based models: Basic science driven

Predictive models: Analysis driven



Data needs for application of CBM+ tenants to ASIP



ASIP should set the standard for CBM+

- Robust ASIP programs
- -Take advantage of New Technology
- Export experience and knowledge to other system engineering disciplines.



Panelists

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- Mr. John McDonald, USAF AF-A4ID (AF Process owner)
- Mr. Paul Hoffman, USN NAVAIR 4.3.3.1
- Dr. James Larsen, USAF AFRL/RX
- Mr. Timothy Fallon, USN NAVAIR JSF/PO



QUESTIONS?