Process Improvement using the PSM at the FAA

PSM Users' Group Conference

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FAA

Information Technology

Software Engineering

Process Improvement

- SW Intensive, Safety Critical complex systems

- Political pressures, GAO audits, recognizing own problems in managing systems

- FAA - ARA Assoc Administrator for Research and Acqusition (Donahue) goal to reach Level 2, then 3 for CMM

- Recognize key role of Measurements

Corporate SEPG

- Purpose
  - Focal point for intiating, planning, motivating, and facilitating the improvement of acquisition lifecycle processes for software intensive systems

- Roles
  - SEPG may support and participate in any process improvement activities across the agency

Metrics Working Group

- The Metrics Working Group was established by the SEPG in February 1996 to implement an FAA wide software metrics program that complements the SEPG goals

Measurement Focus

- Measurements are key to PI
- Initial focus on core set of metrics
- Then switched to PSM
- Training FAA staff on PSM
- Executive (7UP) Metrics

PSM activity

- 3 trained (2 FAA, 1 SETA)to train
- 8 classes held(1/2 day overview) + 80 students
- plan to expand to 1 day and offer to PATs
- will assess PSM tool for use
- Potential PSM transition partner (Government rep)

Executive Metrics

- Requested by AA for Research and Acquisition
- Select pilot projects from different directorates
- Monthly updates

- Requirements Stability
- Product Quality
- Earned Value & Schedule (Contractor)
- SW Progress
- Document Cycle Time
- Cost/Benefit
- Technical Performance