

## **Practical Software and Systems Measurement**

*A foundation for objective project management*



**COSYSMO and Beyond  
Using, Improving and  
Extending COSYSMO  
Wed-Thurs (7/26-7/27)**

**John Rieff / Garry Roedler**  
PSM Users Group Conference  
24-28 July 2006  
Vail, Colorado

PSM 1

July 2006

### **COSYSMO: Current Experience and Beyond Using, Improving, Extending COSYSMO**

- **The COSYSMO Dissertation was defended and published in 2005**
- **Numerous contractors and government agencies have started to explore what COSYSMO means to them**
- **Commercial and non-commercial implementations of COSYSMO are starting to make their presence known**

PSM 2

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## ***Objectives of the Workshop***

- ***Explore and review the experiences of the COSYSMO user community, including academia***
- ***Collect Lessons Learned***
- ***Identify model deficiencies and improvements***
- ***Identify model extensions needed by the user community***
- ***Establish a process for communicating problems and future enhancements, including an ongoing user group forum***
- ***Create a COSYSMO Roadmap***

## ***COSYSMO and Beyond – Day 1***

- ***Wednesday, July 26***
  - ***2:15 – 3:45***
    - ***COSYSMO Usability Survey (30 minutes)***
    - ***Addressing Reuse (30 minutes)***
    - ***Risk Extensions (30 minutes)***
  - ***3:45 – 4:00 Break***
  - ***4:00 – 5:30***
    - ***Process for Communication / User Forum (30 minutes)***
    - ***Deployment Experiences (60 minutes)***
      - Lockheed-Martin
      - Raytheon
      - BAE
      - SAIC
      - General Dynamics
      - Northrop Grumman
    - ***SystemStar (15 minutes)***
    - ***Homework Assignment – handout COSYSMO User's Manual***

## ***Practical Software and Systems Measurement***

### **COSYSMO and Beyond – Day 2**

- Thursday, July 27
  - 8:30 – 10:00 AM
    - COSYSMO Users Manual Review (45 minutes)
    - COSYSMO Website architecture and content (45 minutes)
  - 10:00 – 10:30 Break
  - 10:30 – 12:00
    - Observed Deficiencies (30 minutes)  
Schedule Compression
    - Lessons Learned (30 minutes)  
Schedule Compression
    - Improvement Opportunities (15 minutes)
    - Future Academic Pursuits (15 minutes)

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### **Summary of Past PSM Workshops**

- 2002: 13 participants
  - Presented Delphi Round 1 results
  - Converged on scope of COSYSMO-Information Processing
  - Developed COSYSMO evolution path
- 2003: 23 participants
  - Performed Delphi Round 2
  - Incorporated ISO 15288
  - Converged on difference between size & cost drivers
  - Don Reifer presented COSYSMO-Trade Study
- 2004: 27 participants
  - Performed Delphi Round 3
  - Addressed sizing issues via FAA ERAM
  - Had 11 data points from Raytheon, BAE Systems, and General Dynamics
  - Gary Thomas presented myCOSYSMO and two case studies: Albatross & Goony Bird
- 2005: 25 participants
  - Industry calibration results – 42 data points
  - Opportunities for improvement (vagueness of definitions, maintenance phase estimation)
  - COSYSMO Implementations

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## ***Intended Output***

- ***Lessons Learned from model deployment***
- ***Recommendations for model improvement***
- ***Recommendations for model extension***
- ***Recommendations for changes to the User's Guide or other documentation***
- ***A Process for communicating problems and future enhancements, including an ongoing user group forum***
- ***COSYSMO Roadmap***