

Practical Software and Systems Measurement

Objective Information for Decision Makers



**COSYSMO 3.0: Expert Input to
Parameter Values
#6 - Thursday, February 25**

**Jim Alstad – USC Center for Systems
and Software Engineering**

Workshop Co-Leads

Dr Barry W Boehm	USC Center for Systems and Software Engineering
Dr Jo Ann Lane	
Mr Garry Roedler	Lockheed Martin
Dr Gan Wang	BAE Systems
Ms Marilee Wheaton	The Aerospace Corporation

Objectives of the Workshop

- ***To gather expert opinions on parameter values for the COSYSMO 3.0 model for Systems Engineering cost.***
 - ***And other expert input***
- ***Secondarily, to educate attendees about the contents of the model.***

Workshop Format

- ***Approximate agenda:***
 - 13:15: Attendee introductions***
 - 13:30: Detailed introduction to the model and workshop techniques***
 - 13:45: Delphi round 1***
 - 15:15: Break***
 - 15:30: Delphi round 2***
 - 16:15: Discussions***
 - ***2-value vs 5-value rating of DFR***
 - 16:45: Solicitation & End***
- ***Wideband Delphi will be used:***
 - ***Anonymous voting***
 - ***Discussion of voting results***

Workshop Background

- ***PSMUG Workshops were held on COSYSMO topics:***
 - ***2009 (COSYSMO 2.0)***
 - ***2010 & 2011 (COSYSMO Requirements Volatility)***
- ***In additional, some PSMUG members participate in the COSYSMO 3.0 Working Group***

Intended Output

- ***The intended output is an improved COSYSMO 3.0 model. Specifically:***
 - ***Improved parameter values***
 - ***Discussions on important issues***
 - ***General review of the model***

Workshop Outbrief

Workshop Participants

- ***Jim Alstad, USC (Lead)***
- ***Barry Boehm (USC)***
- ***Garry Roedler (Lockheed Martin)***
- ***John Sautter (Northrup Grumman)***

Summary

- ***We conducted a Wideband Delphi considering and improving all the COSYSMO 3.0 parameters***
 - ***Finished one round, with insightful discussion***

Conclusions, Recommendations, and Results

- ***The parameter results are given in the VotingSummary.anon spreadsheet.***
- ***Additional discussion points will be brought up with the COSYSMO Working Group and folded into the model as appropriate.***

Next Steps/Action Items

- ***Jim and the Working Group will implement the numerical and other improvements into a revision to the COSYSMO Model document***