

Practical Software and Systems Measurement

Practical Software and Systems Measurement

A foundation for objective project management



***PSM Technical Working
Group Meeting
Herndon, Virginia***

March 29-30, 2006

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Logistics

- ***Registration/Logistics – see Jeannie***
- ***Meals***
 - ***Snacks provided***
 - ***Lunch on your own - cafeteria downstairs***
- ***PSM Polo Shirts are available at the registration table***
 - ***PSM Polo Shirts from previous years, are on sale for \$20.00, while they last***
- ***After Meeting***
 - ***Presentations and Workshop Materials Available from PSM Web Site***
(www.psmcsc.com)

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Agenda

- ***Wednesday***
 - ***Presentations, 0830 - 1600***
- ***Thursday***
 - ***Workshops, 0830 - 1200***
 - ***Workshops, 1300 - 1700***

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Workshops

- ***Acquisition Measurement (all day)***
 - *Rita Creel, Software Engineering Institute*
 - *Joe Dean, Tecolote Research*
 - *Cheryl Jones, US Army*
- ***Rational Method Composer (RMC)/RUP Plug-In Review (all day)***
 - *Doug Ishigaki, IBM*
- ***Security Measurement (Thursday morning)***
 - *Cheryl Jones, US Army*
 - *Fred Hall, Assures Engineering*
- ***Can Performance Measurement be Improved? (Thursday afternoon)***
 - *Fred Hall, Assures Engineering*

Accomplishments This Year

- ***New Technology Papers Completed***
 - ***Measurement of Safety and Security***
 - ***PSM/UK/Australia collaboration***
 - ***Security Measurement, Version 3 released January 2006***
 - ***Safety measurement, Version 3, released January 2006***
 - ***Systems Engineering Technical Measures***
 - ***PSM/INCOSE/Industry collaboration***
 - ***Released December 2005***

Accomplishments This Year (cont)

- ***New Technology Papers Completed (cont.)***
 - ***Process Improvement Measurement***
 - ***Released September 2005***
- ***Rational Method Composer (RMC), version 2, released January 2006***
- ***Work in Progress***
 - ***Acquisition Measurement (draft)***
 - ***Draft 0.5 released March 2005***
 - ***Includes Guidance, ICM Table, Acquisition WBS, and Acquisition Cost Model***

2005 Activities - Get Involved

- ***Participate in workshops – provide inputs and recommendations***
- ***Review products as available***
- ***Additional examples to support guidance - Measurement Specifications***
- ***Experience Reports***
- ***Case Studies and Papers***

2005 Activities – PSM Insight

- ***Plans are underway to update PSM Insight***
- ***Focus will be on:***
 - ***Enterprise orientation***
 - ***Server data entry***
 - ***Output results to intranet/internet***
 - ***Security***
 - ***TSP/PSP measure templates***
- ***We are looking for additional partners for this activity – if you are interested, talk to Cheryl Jones***

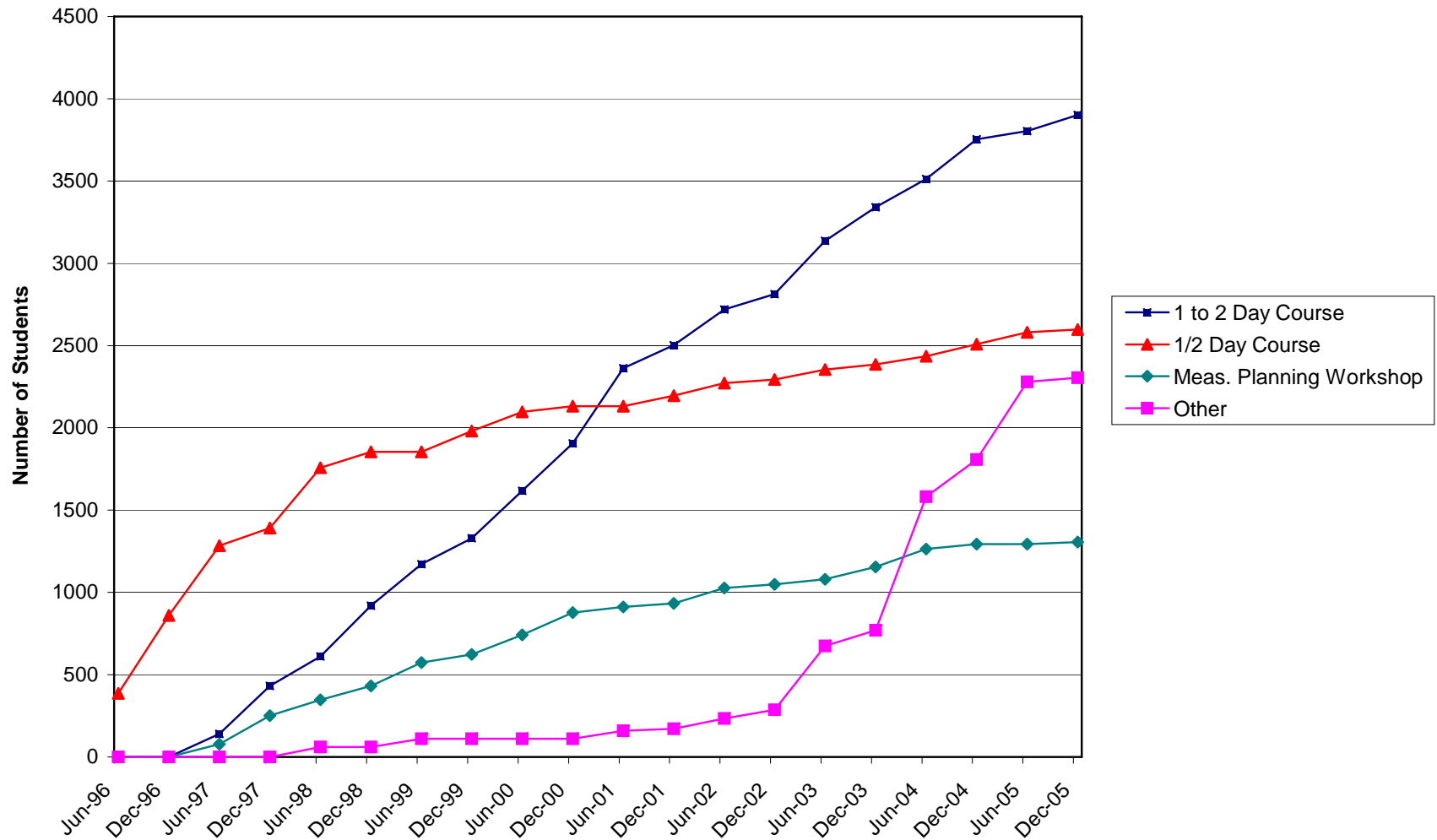
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2006 Schedule - Public Courses

- ***PSM Train-the-Trainer Course***
 - ***3-5 April 2006 - New Jersey***
- ***Technical Working Group Meetings***
 - ***Users' Group Meeting – 24-28 July 2006, Vail, Colorado***
 - ***Theme: Analysis and Decision Making***

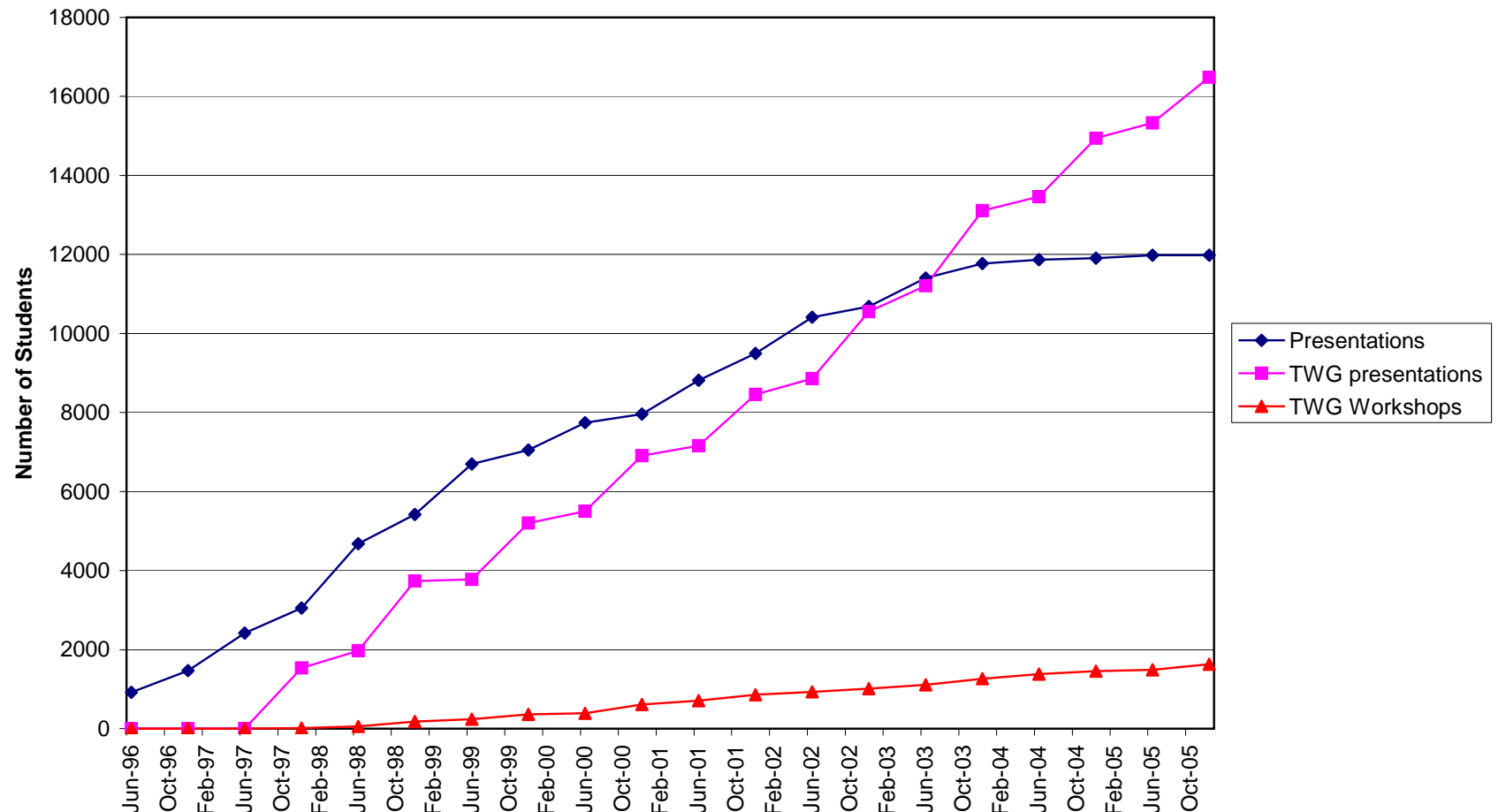
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PSM Performance Management December 2005



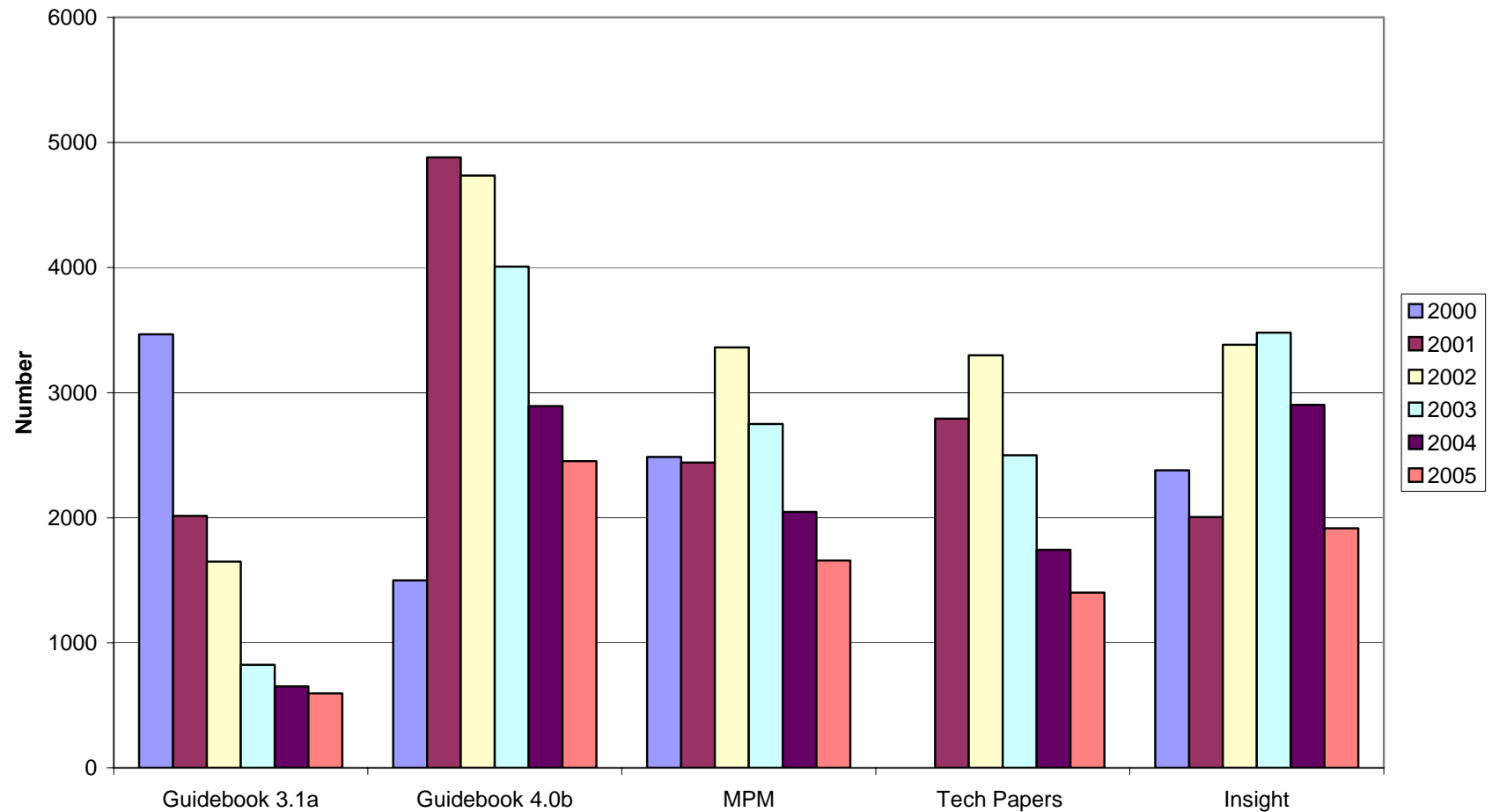
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PSM Performance Management December 2005



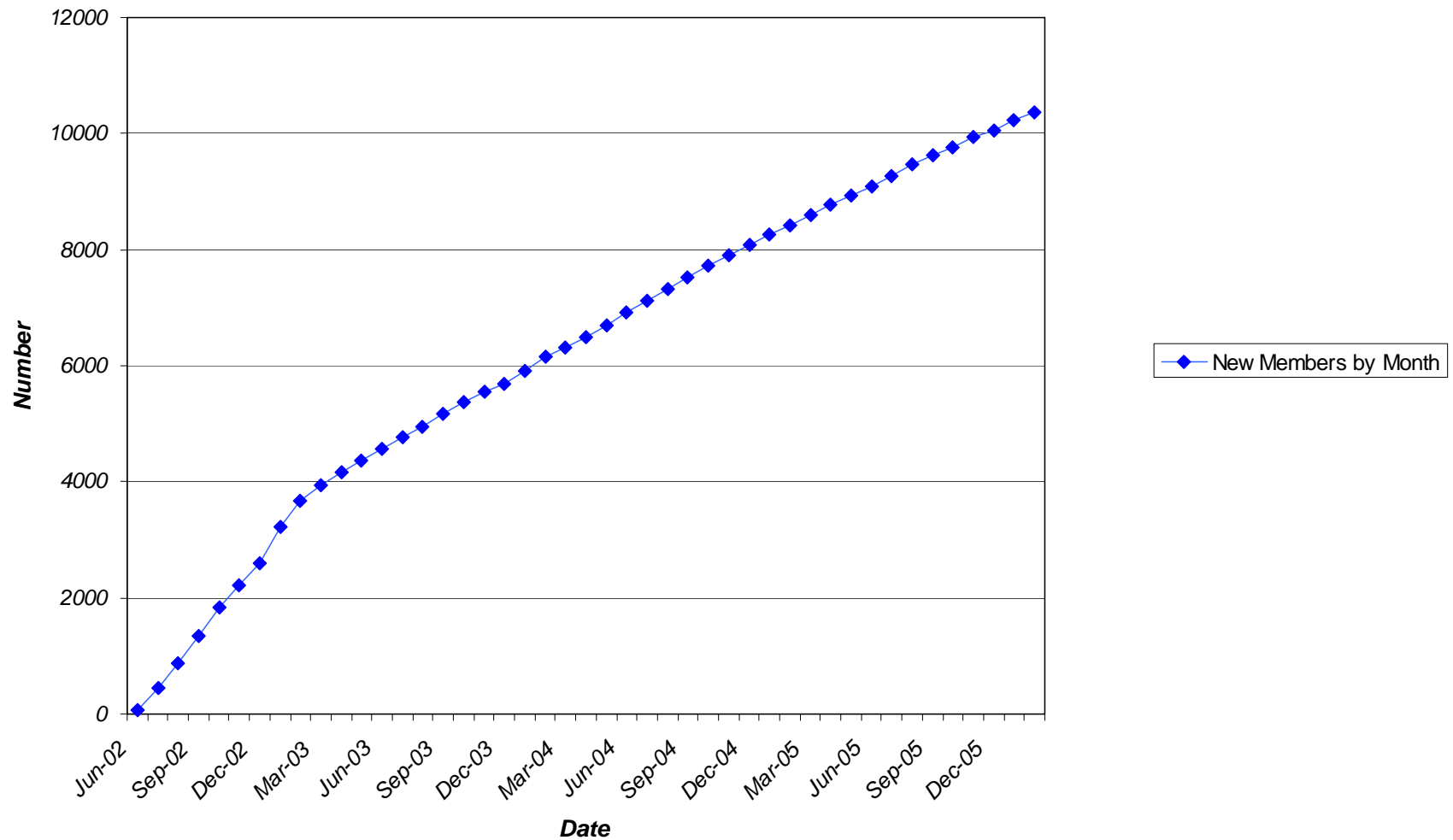
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PSM Download Stats Dec 2005



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**Number of New Members by Month
(Cumulative) through Feb 06**



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PSM Participating Organizations

DoD and Government

- ***US Air Force AFMC***
- ***US Air Force SSSG***
- ***US Air Force STRATCOM***
- ***US Air Force STSC***
- ***US Army CECOM***
- ***US Army CERDEC & Engineering Ctr.***
- ***US Army Material Command***
- ***US Army RDECOM-ARDEC***
- ***US Army SAALT***
- ***US Army SMDC***
- ***USMC MCTSSA***
- ***US Navy AEDC***
- ***US Navy ASN RDA***
- ***US Navy FMSSO***
- ***US Navy NAVAIR***
- ***US Navy NAVSEA***
- ***US Navy NAWC***
- ***US Navy NRL***
- ***US Navy NSWC***
- ***US Navy NUWC***
- ***US Navy OPTEVFOR***
- ***OSD NII***
- ***OSD PA&E***
- ***ODUSD (S&T)***
- ***Aerospace Corp.***
- ***Central Intelligence Agency***
- ***Dept of Homeland Security, Customs & Border Protection***
- ***DAU-DSMC***
- ***DCMA***
- ***DFAS***
- ***DISA***
- ***DLA***
- ***FAA***
- ***IDA***
- ***MITRE Corp.***
- ***NASA***
- ***Sandia National Lab***
- ***Soc. Sec. Admin.***
- ***Software Engineering Institute***

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PSM Participating Organizations

Industry

- ACS GSG
- Accenture, Quality and Process Improvement
- Alion Science and Technology
- American Sys. Corp.
- Ameritrade Corporation
- Argon Engineering Assoc.
- Assurance Engineering
- BAE Systems
- Bank of America
- Bloodworth Int. Tech.
- Boeing
- Booz Allen Hamilton
- Borland TeraQuest
- Carnegie Mellon Univ.
- Center for Systems Management
- CMIS
- Computer Sciences Corp.
- Computer Technology Associates
- Countrywide
- David Consulting Group
- Distributive Software
- Federal Reserve Bank
- First Line Partners
- Fraunhofer Ctr. For Experimental Software Engineering
- GTE
- Galorath, Inc.
- General Dynamics
- General Scientific Corporation
- Graeme & Garland
- Hawaiian Electric
- IBM
- IEEE
- IFPUG
- IITRI
- INCOSE
- ITABHI
- Independent Engineering, Inc.
- Jacobs Sverdrup
- James Gregory Assoc.
- Kodak Health Imaging
- L3 Communications
- Lexmark International
- Lockheed Martin
- Measurement-By-Management

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PSM Participating Organizations

Industry (continued)

- ***Nat. Renewable Energy Lab.***
- ***Northrop Grumman***
- ***OAQ Corporation***
- ***Pragma Systems Corporation***
- ***PRICE Systems, LLC***
- ***Q-Labs***
- ***QSM***
- ***Quality Plus Tech.***
- ***Raytheon***
- ***Reifer Consultants***
- ***Robbins Gioia, LLC***
- ***Rockwell Collins***
- ***SAIC***
- ***Sallie Mae***
- ***Sentel***
- ***SETA***
- ***Softstar Systems***
- ***Software Engineering Assoc., Inc.***
- ***Software Management Solutions***
- ***Software Metrics, Inc.***
- ***Systems and Software Consortium, Inc***
- ***Technomics***
- ***Tecolote Research. Inc.***
- ***TeraQuest Metrics***
- ***Texas Guaranteed Student Loan Corporation***
- ***Titan Corporation***
- ***Tivoli***
- ***Tybrin Corporation***
- ***United Defense***
- ***Univ. Southern CA***
- ***Upsart Systems, LLC***
- ***User Trust Network***
- ***US West***
- ***VisiTcch, Ltd.***
- ***VPI - State University***
- ***West Virginia High Tech. Consortium***
- ***West Virginia University***
- ***Whittaker Group***
- ***Wind River Systems***
- ***Xcel Energy***

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PSM Participating Organizations

International

- ***ADI Limited (Australia)***
- ***Amdocs (Israel)***
- ***Australian Defence Force Academy (Australia)***
- ***Australia SoC Technology Centre (Australia)***
- ***BAE Systems (Australia)***
- ***Centro de Investigacion en Matematicas (Mexico)***
- ***Defence Materiel Org.-Australian DoD (Australia)***
- ***Defense Science and Technology Labs (UK)***
- ***Ericsson Espana SA (Spain)***
- ***General Dynamics (Canada)***
- ***Gov't of Israel, Ministry of Defense***
- ***Jacobs Sverdrup Technology (Australia)***
- ***Kozo Keikaku Engineering, Inc. (Japan)***
- ***Liveware I.SS.A. (Argentina)***
- ***MEADS International (U.S, Germany, Italy)***
- ***NRC (Canada)***
- ***S-3 Consulting Pty. Ltd (Australia)***
- ***Saab Systems Pty. Ltd. (Australia)***
- ***Software Improvements Pty. Ltd. (Australia)***
- ***Software Quality Institute (Australia)***
- ***Tangram Hi-Tech Solutions (Israel)***
- ***Tenix ESD (Australia)***
- ***ti Metrics (Brazil)***
- ***UK Ministry of Defense (UK)***
- ***University of York/ York Metrics Ltd. (UK)***

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Transition Organizations

DoD and Government

- ***US Army RDECOM – ARDEC (PSM Support Center)***
- ***US Air Force Software Technology Support Center***
- ***US Navy NAVAIR***
- ***Naval Undersea Warfare Center***
- ***Aerospace Corporation***
- ***Defense Contract Management Agency***
- ***Defense Acquisition University - Defense Systems Management College***
- ***Federal Aviation Administration***
- ***MITRE Corporation***
- ***Software Engineering Institute***

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Transition Organizations

Industry

- ***Lockheed Martin***
- ***Borland (formerly TeraQuest)***
- ***INCOSE***
- ***Software Metrics, Inc.***
- ***Q-Labs***
- ***Systems and Software Consortium, Inc (SSCI)***
- ***Northrop Grumman***
- ***Distributive Software***
- ***Quality Plus Technologies, Inc.***
- ***Computer Sciences Corporation***
- ***Texas Guaranteed Student Loan Center***
- ***Argon Engineering Associates***
- ***Center for Systems Management***
- ***David Consulting Group***
- ***Robbins-Gioia, LLC***
- ***Titan Corporation***

Transition Organizations

International

- ***Liveware I.S.S.A (Argentina)***
- ***ADI Limited (Australia)***
- ***Australian Defence Force Academy (Australia)***
- ***BAE Systems (Australia)***
- ***Defence Materiel Organisation - Australian DoD (Australia)***
- ***Jacobs Sverdrup Technology (Australia)***
- ***S-3 Consulting Pty. Ltd. (Australia)***
- ***Saab Systems Pty. Ltd (Australia)***
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