

Practical Software and Systems Measurement

Practical Software and Systems Measurement

A foundation for objective project management



***PSM Users' Group
Conference
Aspen, Colorado***

July 23-27, 2001



Practical Software and Systems Measurement

Expanding the Application of PSM

Practical Software and Systems Measurement

2001 PSM Users' Group Conference

**Sponsored by the PSM Support Center
and the International Council on
Systems Engineering**

**in cooperation with ASQ Software
Division**





Practical Software and Systems Measurement

***Conference Welcome
and Introductions***

Practical Software and Systems Measurement

Objectives

- **Conference Participants**
 - *User perspectives - share lessons learned*
 - *Discuss guidance for new areas*
 - *Information on related initiatives*
- **PSM Project Expectations**
 - *Technical Inputs in development of new guidance*
 - *Interaction with users - experiences using PSM*

Practical Software and Systems Measurement

Logistics

- ***Meals***
 - ***Breakfast Daily***
 - ***Lunch Provided - Tues/Thur***
 - ***Dinner - Wed - BBQ and Rodeo***
 - ***5:00pm - Dinner (Cash Bar)***
 - ***7:00pm - Rodeo***
- ***Registration/Logistics***
 - ***Silver Tree Hotel - 4th floor***

Practical Software and Systems Measurement

PSM Conference Dinner/Rodeo

- ***Carpool - leave from front of lobby by 1700***
 - ***Other options are taking the Village shuttle or a hotel van (\$5/per person, roundtrip - for the hotel van, make advance arrangements with the hotel).***
- ***There will be a reserved area for PSM Conference attendees - look for the signs***
- ***The barbeque begins at 5pm and ends at 7pm (cash bar) - the rodeo begins at 7pm***
- ***Make sure you have a ticket (pick them up Tuesday at the PSM registration table (El Dorado Lobby)***

Practical Software and Systems Measurement

Logistics

- ***Dress - Summer Casual***
- ***Messages***
 - ***970-923-3520 x8100 - ask for PSM Conference***
- ***Group Picture***
 - ***Wednesday at 1200 - wear shirts***
 - ***Follow-the-leader from the registration desk***

Practical Software and Systems Measurement

Agenda

- **Tuesday**
 - ***Presentations, 0830 - 1730***
- **Wednesday**
 - ***Presentations, 0830 - 1200***
 - ***Workshop Session 1, 1315 - 1645***
- **Thursday**
 - ***Workshop Session 2, 0830 - 1200***
 - ***Workshop Session 3, 1300 - 1630***
- **Friday**
 - ***Wrap-Up and Out-Briefs, 0830 - 1130***

Practical Software and Systems Measurement

Workshops

- ***Measurement Field Trials - Object-Oriented Measurement***
- ***Measuring Systems Engineering Products***
- ***Tailoring and Implementing PSM Insight on “Your” Project***
- ***Organizational Measurement***
- ***PSM Implementation Plan Comments***
- ***Systems Engineering Cost Estimation***

Practical Software and Systems Measurement

Workshops (Cont.)

- ***PA&E Software Metric Proposal***
- ***Project Justification Measures (Organizational Measurement)***
- ***Effective Implementation of a Measurement Program***
- ***WBS Development***
- ***Building Models from Your PSM Data***

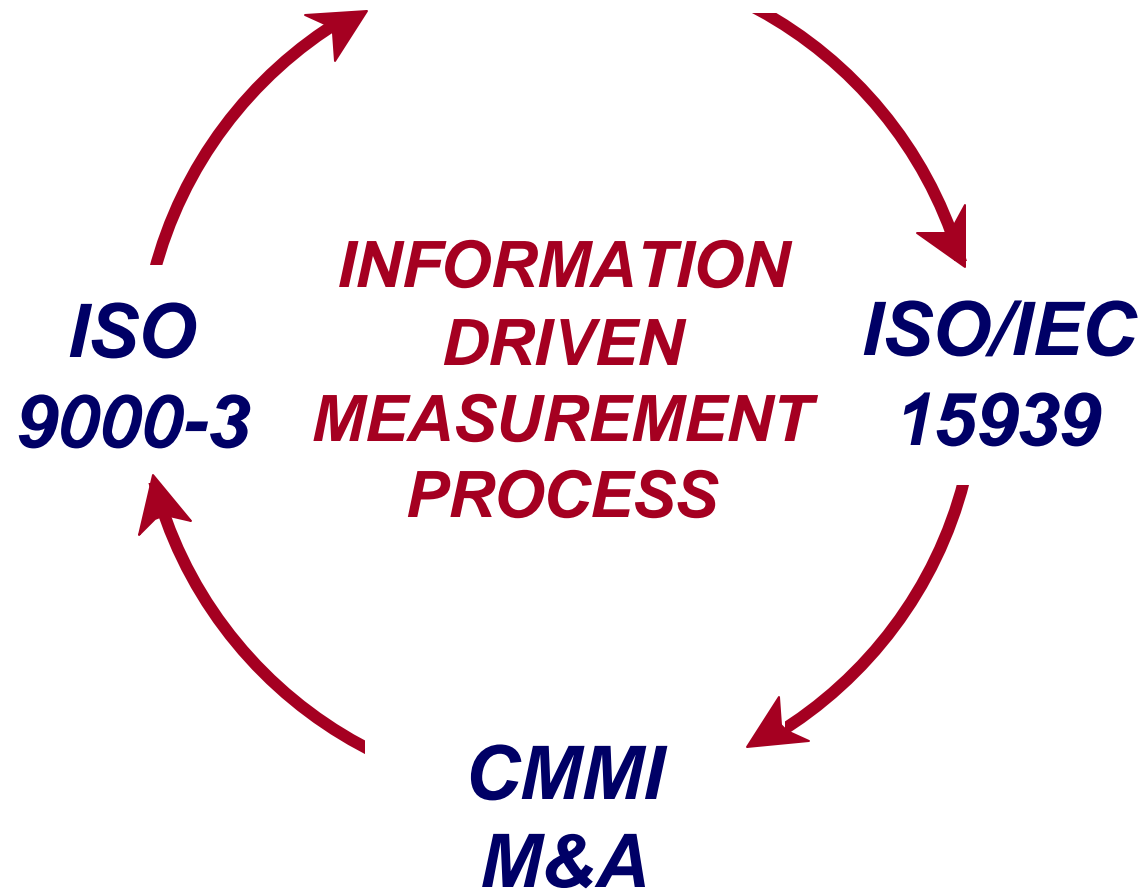
Practical Software and Systems Measurement

Accomplishments This Year

- ***PSM Version 4.0b, Parts 1-7 Released***
 - ***Incorporating Systems Engineering and Product Engineering Measures***
- ***White Papers Drafted***
 - ***Object Oriented Development***
 - ***Spiral/Evolutionary Developments***
 - ***Interoperability***
 - ***Product-Line Architectures***
- ***CMMI M&A Process Area, ISO/IEC 15939, and PSM are Technically Consistent***

Practical Software and Systems Measurement

Practical Software and Systems Measurement

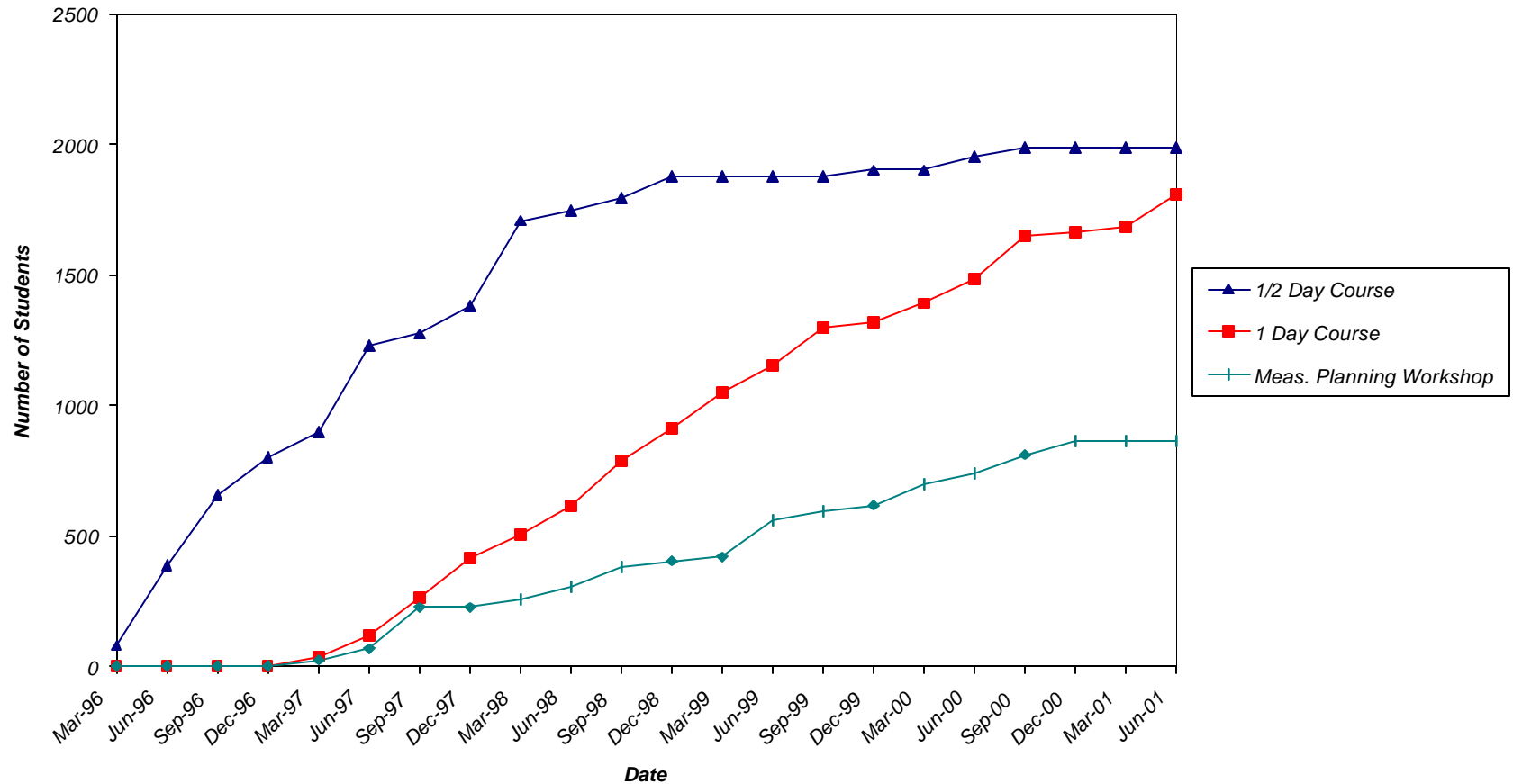


FY01 Activities - Plans

- ***PSM Field Trials For***
 - ***Object Oriented Development***
 - ***Spiral/Evolutionary Developments***
- ***PSM Updates - Parts 8-10***
 - ***Version 4.0 Released - Oct 01***
- ***PSM Insight Releases***
 - ***Aug 01 - functionality enhancements***
- ***PSM Published - Oct 01***
 - ***Addison Wesley, Publisher***

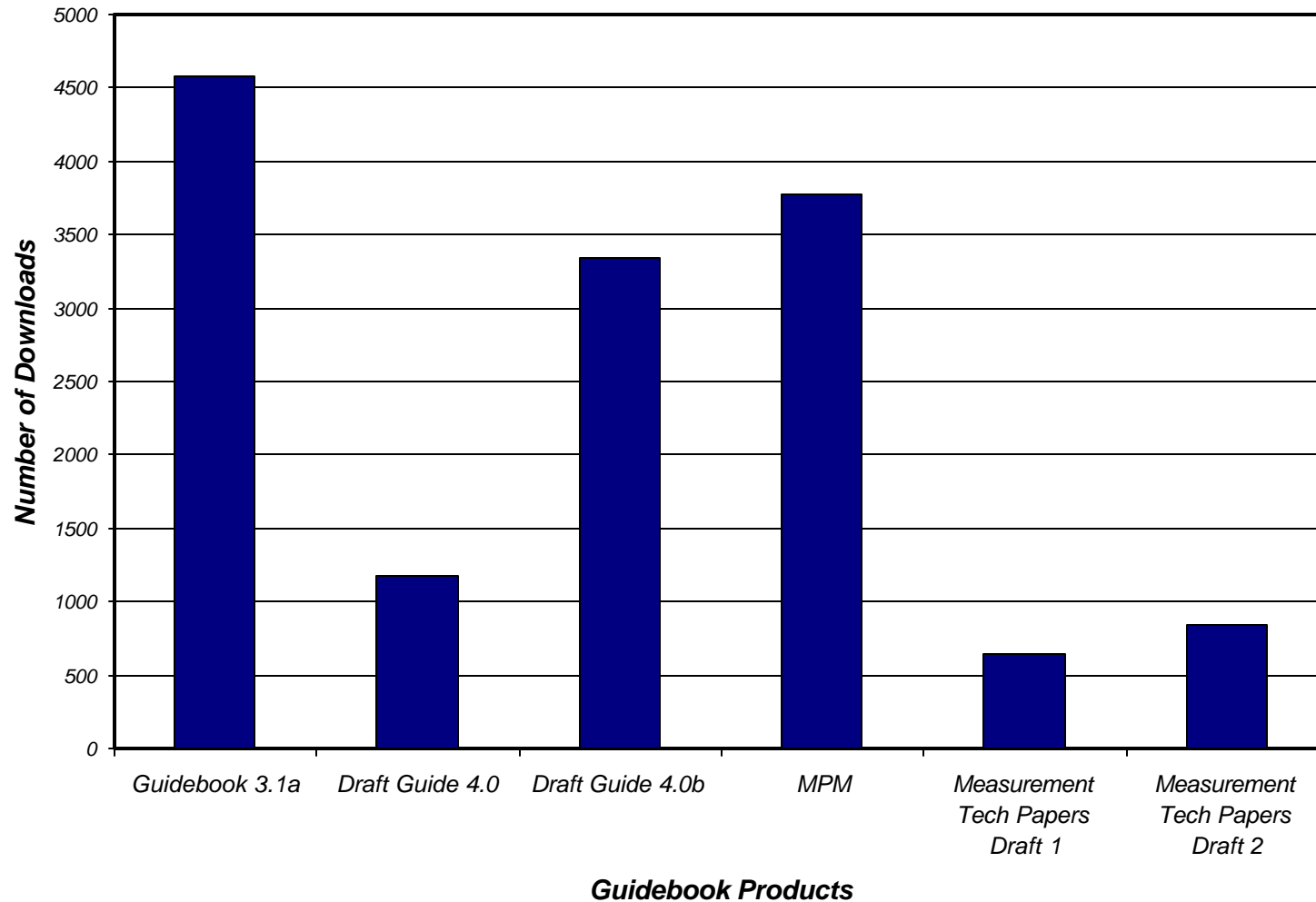
Practical Software and Systems Measurement

PSM Transition Activity
(Cumulative as of Jun 00)



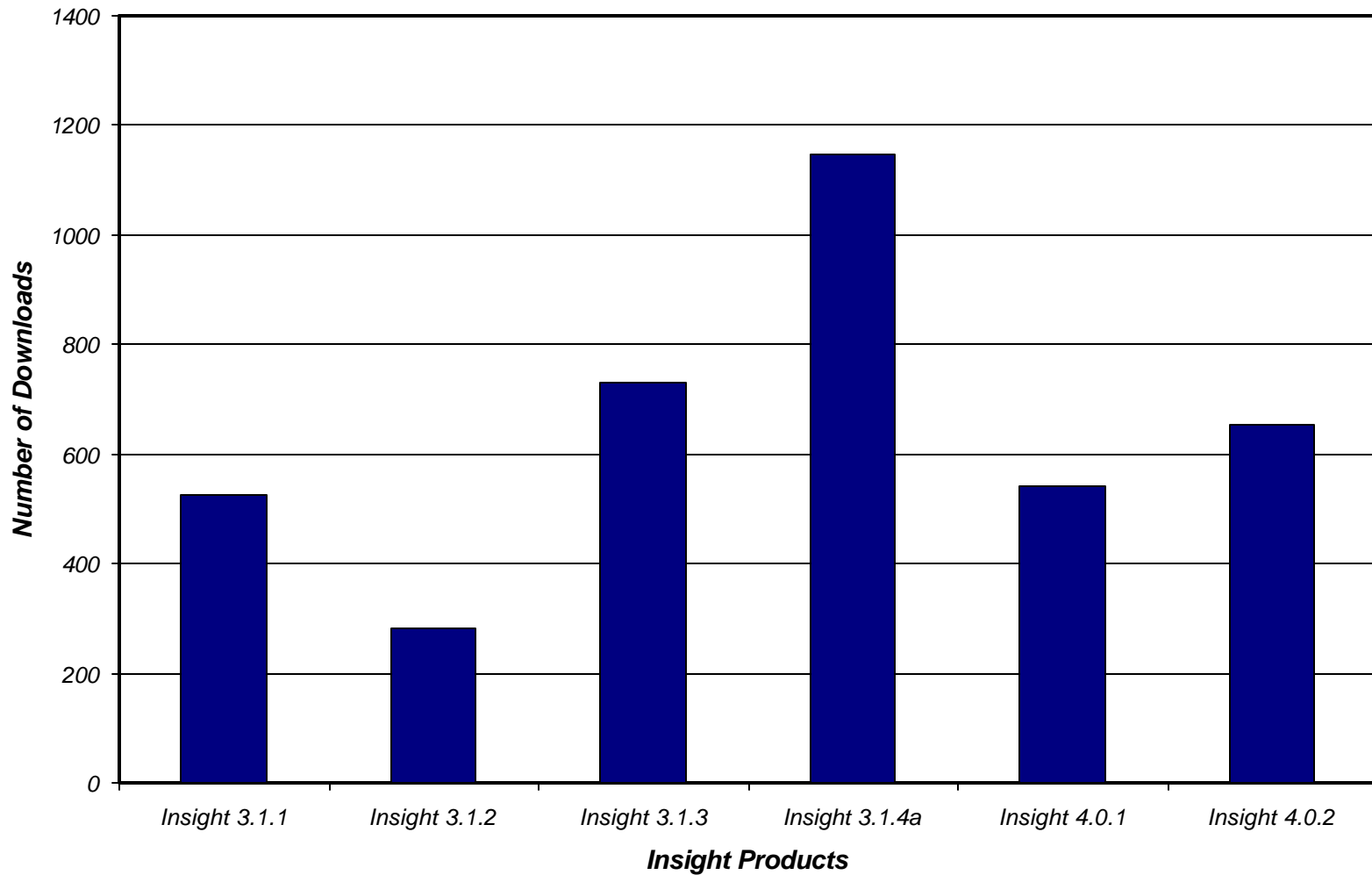
Practical Software and Systems Measurement

PSM Web Downloads
Data as of 10 Jul 01



Practical Software and Systems Measurement

*PSM Web Downloads
Data as of 10 Jul 01*



Practical Software and Systems Measurement

PSM Participating Organizations

DoD and Government

- ***US Air Force AFMC***
- ***US Air Force SSSG***
- ***US Air Force STSC***
- ***US Air Force CRSIP***
- ***US Air Force STRATCOM***
- ***US Army AMC***
- ***US Army ATEC***
- ***US Army CECOM***
- ***US Army ODISC4***
- ***US Army SMDC***
- ***US Army TACOM - ARDEC***
- ***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***
- ***ODUSD (S&T)***
- ***OSD C³1***
- ***OSD PA&E***
- ***Aerospace Corp.***
- ***DCMA***
- ***DFAS***
- ***DISA***
- ***DLA***
- ***DSMC***
- ***FAA***
- ***IDA***
- ***MITRE Corp.***
- ***NDU IRM College***
- ***NASA***
- ***National Park Service***
- ***Sandia National Lab***
- ***SEI***
- ***Soc. Sec. Admin.***

Overseas

- ***Defence Materiel Org. (Australia)***
- ***LiveWare (Argentina)***
- ***NRC (Canada)***
- ***Software and Systems Engineering (Israel)***
- ***Software Improvements (Australia)***
- ***Software Quality Institute (Australia)***

Practical Software and Systems Measurement

PSM Participating Organizations

Industry

- ***ACS GSG***
- ***American Sys. Corp.***
- ***Averstar***
- ***Bloodworth Int. Tech.***
- ***Carnegie Mellon Univ.***
- ***CSC***
- ***CTA***
- ***Distributive Software***
- ***Federal Reserve Bank***
- ***General Dynamics***
- ***General Scientific Corp.***
- ***Graeme & Garland***
- ***GTE***
- ***Hawaiian Electric***
- ***IEEE***
- ***IFPUG***
- ***IITRI***
- ***INCOSE***
- ***Independent Engineering***
- ***ITABHI***
- ***James Gregory Assoc.***
- ***Kodak Health Imaging***
- ***Litton/TASC***
- ***Lockheed Martin***
- ***L3 Communications***
- ***Northrop Grumman***
- ***OAD Corporation***
- ***PRC - Litton***
- ***PRC/TASC***
- ***QSM***
- ***Quality Plus Tech.***
- ***Raytheon - Hughes***
- ***Robbins, GIOIA***
- ***Rockwell Collins***
- ***SAIC***
- ***Sallie Mae***
- ***Sentel***
- ***Software Metrics***
- ***SPC***
- ***Sverdrup Tech.***
- ***Tecolote Research***
- ***TeraQuest Metrics***
- ***Tivoli***
- ***TRW***
- ***United Defense***
- ***Univ. Southern CA***
- ***User Trust Network***
- ***US West***
- ***VPI - State University***
- ***West Virginia High Tech. Consortium***
- ***West Virginia University***

Practical Software and Systems Measurement

Transition Organizations

DoD and Government

- *PSM Support Center*
- *US Army ATEC*
- *AFMC CRSIP - STSC Measurement Teams*
- *Federal Aviation Administration (FAA)*
- *Software Engineering Institute*
- *MITRE Corporation*
- *Defense Systems Management College*
- *Naval Undersea Warfare Center (NUWC)*
- *Naval Air Warfare Center (NAWC)*
- *DCMA Software Center*
- *The Aerospace Corporation*

Practical Software and Systems Measurement

Transition Organizations

Industry

- ***Lockheed Martin***
- ***Software Productivity Consortium***
- ***TeraQuest Metrics***
- ***INCOSE***
- ***TRW***
- ***Distributive Software***
- ***Quality Plus Technologies, Inc.***

Overseas

- ***Defence Materiel Organisation (Australia)***
- ***Software Quality Institute (Australia)***
- ***Software Improvements Pty Ltd. (Australia)***
- ***Liveware I.S.S.A (Argentina)***
- ***Software and Systems Engineering (Israel)***