Practical Software and Systems Measurement

A foundation for objective project management

PSM 2010
16 July 2008
Cheryl Jones
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PSM Users Group Conference
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Mystic, Connecticut

Workshop Participants

- Tim Addison
- Mauricio Aguiar
- Rita Creel
- Joe Dean
- Mike Denny
- Dan Ferens
- Valarie James
- Cheryl Jones
- Jose Machado
- Jack McGarry
- Kevin Mooney
- John Murdoch
- Antony Powell
- Alison Schwier
- Dave Seaver
- Carlos Shaeffers

Summary of the Workshop

- Reviewed results from past workshops on "Future of Measurement"
- Reviewed PSM Project Structure
- Discussed Vision and Scope Characteristics for PSM 2010 - assigned actions to propose alternatives
- Discussed Operational Plan and potential actions for coming year - assigned actions to review details and suggest revisions

PSM Vision

- "To be the primary global resource used by projects and enterprises to implement a measurement based decision discipline that drives performance

PSM Scope Characteristics

- PSM Tasks
  - Project Management
  - Technology Development and Integration
  - Development of guidance, product set
  - Marketing and Transition
- Application Scope
  - Project, Enterprise
  - Government, DoD, Industry, International, Academia c1
- Focus Areas
  - Project Management - Engineering Capability & Management
  - Process Improvement
  - Performance Analysis - benchmarking, outcome

c2

PSM Scope Characteristics (cont.)

- End User
  - Decision makers – project level, executive (including CIO, CEO)
- Technical Domains
  - Primary: Software-Intensive Systems
  - Secondary: flexible (with tailoring) – focused guidance
- Sophistication
  - Novice - Fundamental
  - Advanced
  - Focused on end-user (decision-maker)
  - Experienced users (black belts, CMMI level 4/5)
- Technical Currency
  - E.g. SLOC versus current approach

c3

Slide 5

c1 mixed set of items - need to rationalize
cheryl.jones5, 7/16/2008

c2 need to investigate to decide if should be a focus area - to what level

insersection between governance and systems/software engineering - applications, protection, what is being changed
cheryl.jones5, 7/16/2008

Slide 6

c3 think about common use today as well as up and coming technology
support the development of measures in new technical domains

services area
cheryl.jones5, 7/16/2008

PSM Initiative

- Principles
- Foundational Models - process, information, analysis, behavioral
- Key Constructs - ICM, measurement specifications, information products, impact - value added
- Key Products - guidance, training, PSM Insight, implementation aids
- Transition Strategy - marketing
- Project Management - financials, qualifications, quality, impact - value added

Conclusions, Recommendations, and Results

- Scope and PSM elements need to be revised for current environment
- PSM TWG members will be invited to participate in prioritizations
- Additional sponsors / contributions need to be solicited

Next Steps / Action Items

- Review and propose revisions to vision, scope characteristics, and initiative elements
  - Workshop participants by 23 July
  - Users' Group members by 15 August
- Prioritize identified elements by 15 September
- Identify sponsors and participants for working on various elements - Fall 2008
- Hold writing sessions in Fall/Winter 2008 - potential near-term topics include:
  - Revise principles
  - Revise ICM table
  - Complete measurement specifications
  - Technology refresh of existing training materials