

Practical Software and Systems Measurement

Practical Software and Systems Measurement

A foundation for objective project management



***Process Improvement
Measurement***

July 28, 2004

Facilitator: Joyce Statz

PSM Users Group Conference

26-30 July 2004

Practical Software and Systems Measurement

Workshop Participants

- ***Mauricio Aguiar***
- ***Craig Beyers***
- ***Alejandro Bianchi***
- ***Molly Campbell***
- ***Olga Chechelnitsky***
- ***Anthony W. Childers***
- ***Sheila P. Dennis***
- ***David Garmus***
- ***Dennis Goldenson***
- ***Renee' Hall***
- ***David Herron***
- ***Joe Lindley***
- ***Sherry Mizell***
- ***Wendell Mullison***
- ***M. Lisa Pinkney***
- ***Amos Rohrer***
- ***Joyce Statz***
- ***Elliot Troy***

Objectives of the Workshop

- ***Comment on the white paper on measurement for process improvement, being submitted to PSM as guidance***
 - ***Based on the material developed in work sessions at PSM UG Conferences and TWG Meetings since 1998***
- ***Establish community acceptance of the guidance, or determine path to get there***



Practical Software and Systems Measurement

PI Measurement Information

Needs Categories

- ***PI Project Value (used for justification and monitoring results)***
- ***Readiness for PI (essentially culture and organizational factors)***
- ***PI Project Progress***
 - ***progress to the project plan***
 - ***progress to the proposed value of PI***

Practical Software and Systems Measurement

Summary

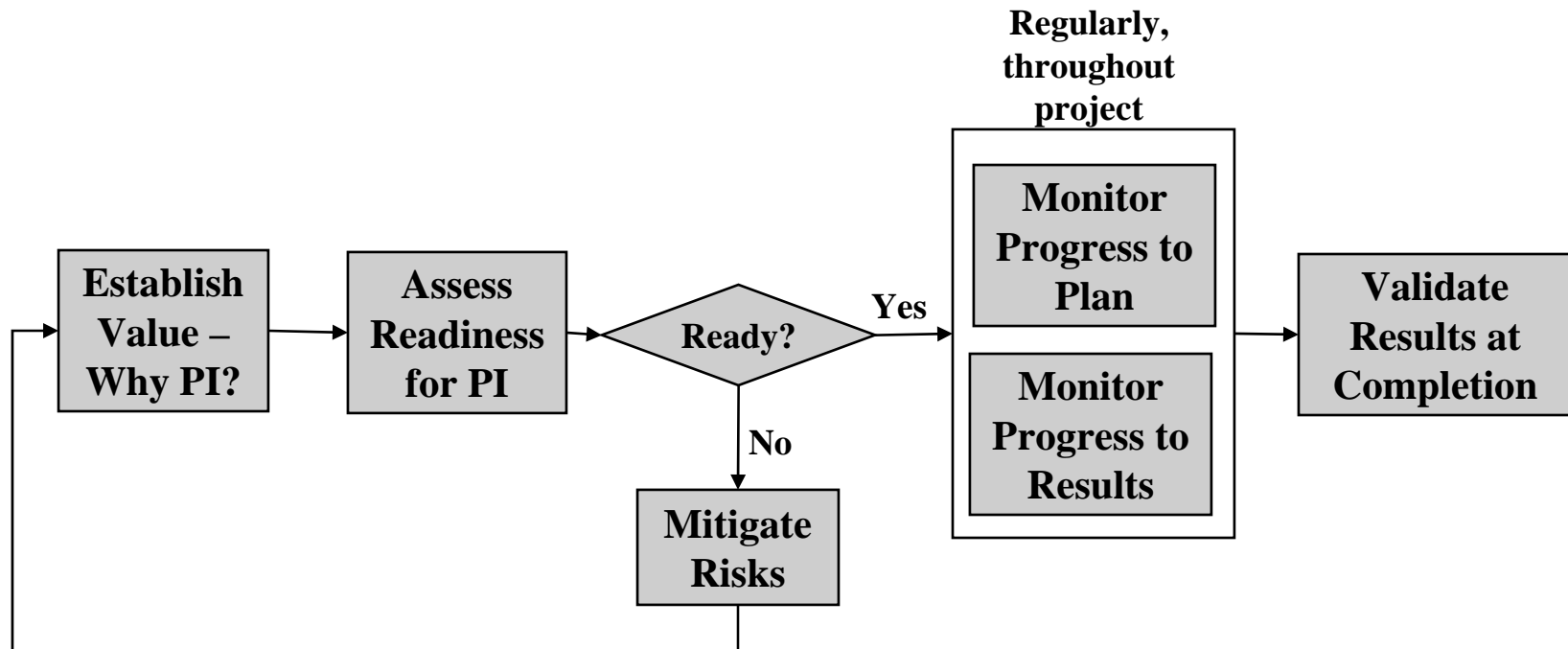
- ***Comments were received before the session from 2 people, we integrated into our discussion***
- ***Completed a review of the document and discussed additions, to make it more useable***
- ***Accumulated a log of 39 changes***
- ***Planned for changes to be incorporated and white paper circulated for final review***

Conclusions, Recommendations, and Results

- ***Add to the paper:***
 - ***a graphic depicting the flow of PI measurement***
 - ***discussion of gathering performance baseline, leveraging the DCG material from this week***
 - ***more graphics***
 - ***discussion of example indicators/analysis for each category***
- ***Rename “justification” category to something like “Value (ROI) of PI”***
- ***Break section on progress measures into two***
 - ***monitoring progress of the project***
 - ***monitoring progress to the results***

Practical Software and Systems Measurement

Flow of PI Measurement - Draft



Practical Software and Systems Measurement

White Paper Outline (to be)

- ***Background of PSM Measurement of PI***
- ***Categories of PI Measurement Information Needs***
- ***Measuring the Value (ROI) of PI***
- ***Measuring Readiness for PI***
- ***Measuring Project Progress for PI***
- ***Measuring Progress with Value of PI***
- ***Appendices***
 - ***PSM v. 4.0 Questions and ICM used as basis***
 - ***PI Measurement Specifications***
 - ***PI Measurement Indicator Examples (ROI, cost of quality, readiness risk ratings, ...)***
 - ***Example PI Risk Factors to support Readiness Measure***
 - ***Example Cost/Benefit Planning Form***

Practical Software and Systems Measurement

Next Steps/Action Items

- | | <u><i>End Date</i></u> |
|--|------------------------|
| • <i>Interested reviewers – register with Joyce for final round</i> | • <i>July 30, 2004</i> |
| • <i>Joyce - Incorporate comments and post on PSM web site for final review; email to registered reviewers</i> | • <i>Aug 30, 2004</i> |
| • <i>Registered reviewers – provide feedback</i> | • <i>Sep 30, 2004</i> |
| • <i>Joyce – make final adjustments and submit to PSM team for use</i> | • <i>Oct 30, 2004</i> |