**PSM Insight Beta Test Review** and Feedback Session

Dave Morris, Independent Engineering Scott Lucero, U.S. Army Software Metrics Office

#### **Objectives of the Workshop**

 Describe the Underlying Architecture and Design Issues
 Review the Tool Features
 Demonstrate Installation Procedures
 Develop Beta Test Procedures
 Provide Feedback on Tool Functionality for Release 1.0 and Beyond

## Background

Insight Prototype - West Virginia Development (1996)

Pseudo-Polymorphic Data Structures

 Ultimate in Flexibility But Less Control Over Data and Indicators

#### **Background** (continued)

Army's Software Metrics Management Information System - Windows (SMMIS-W)

- DOS Version in 1994
- Supports 14 Specific Metrics
- Initial Plans Were to Extend Metrics Guided Maturity to Support the Army Set of Metrics
- Uses ODBC for Data Import
- Merged Insight Requirements in Feb 1997

#### Insight Features

Functionality Divided into Tailoring and Application

Extensive Use of Wizards

 Parameterize Data Table and Indicator Creation for Explicit Control => Flexibility
 Built in Support for Electronic Data Import
 Templates for PSM Issues, Categories and Measures (ICMs)
 Easy Addition of Other ICMs

# Workshop Output

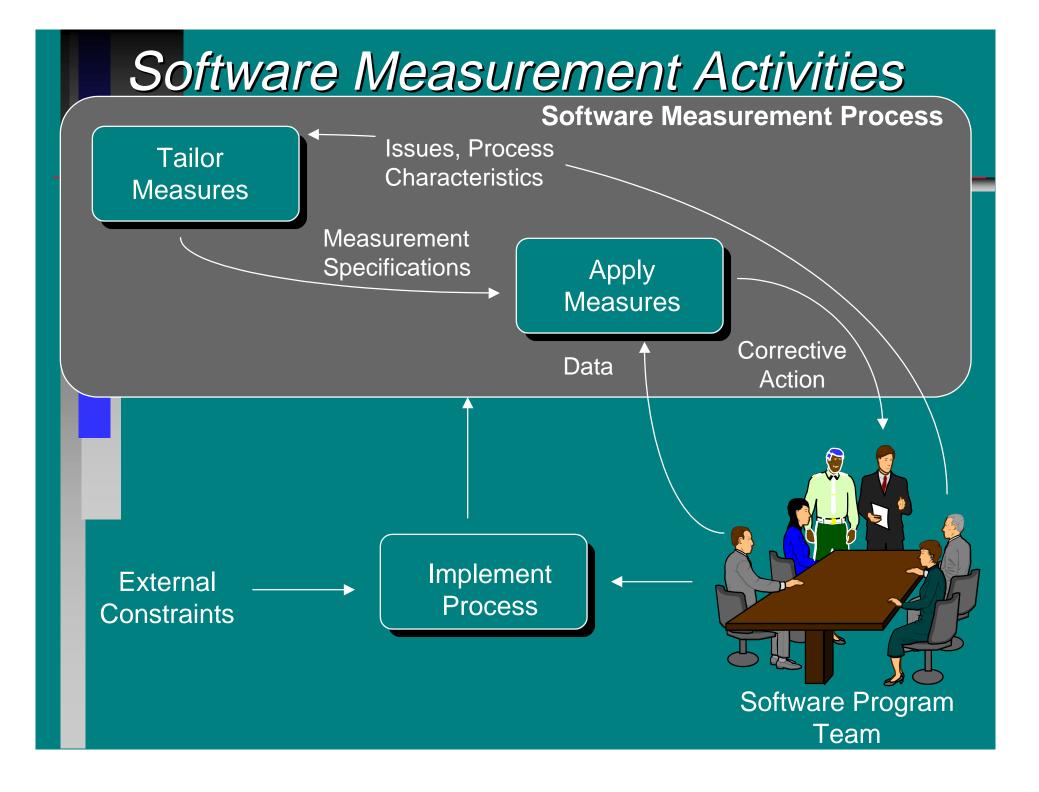
A Set of Recommendations for Changes or Additions to Insight Functionality

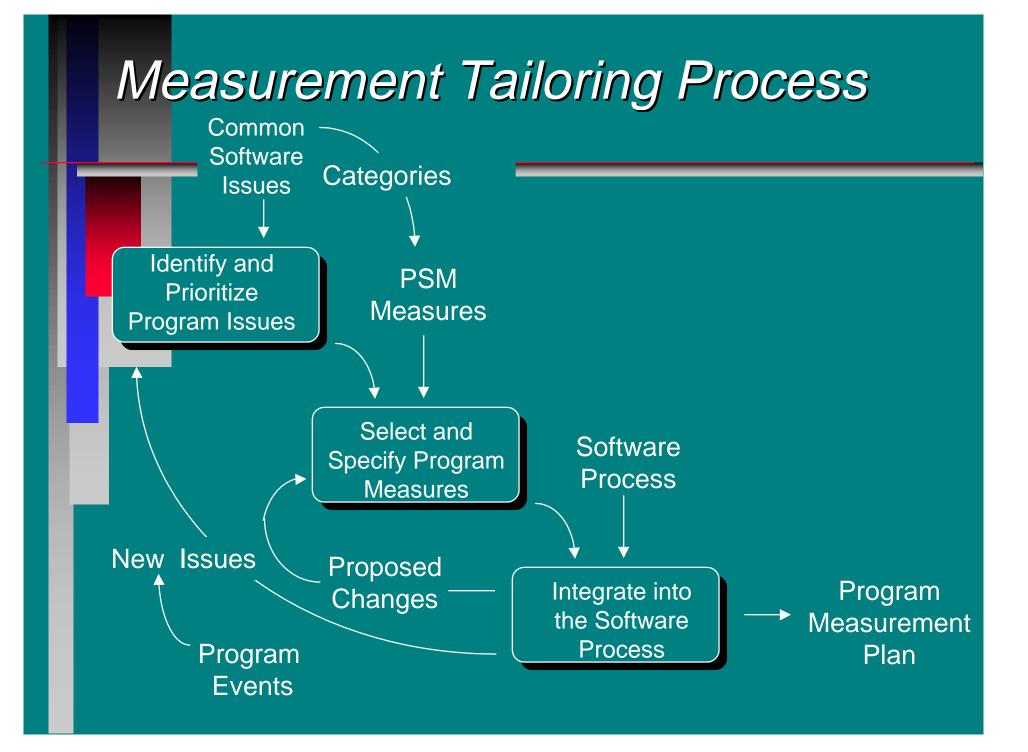
Beta Test Procedures

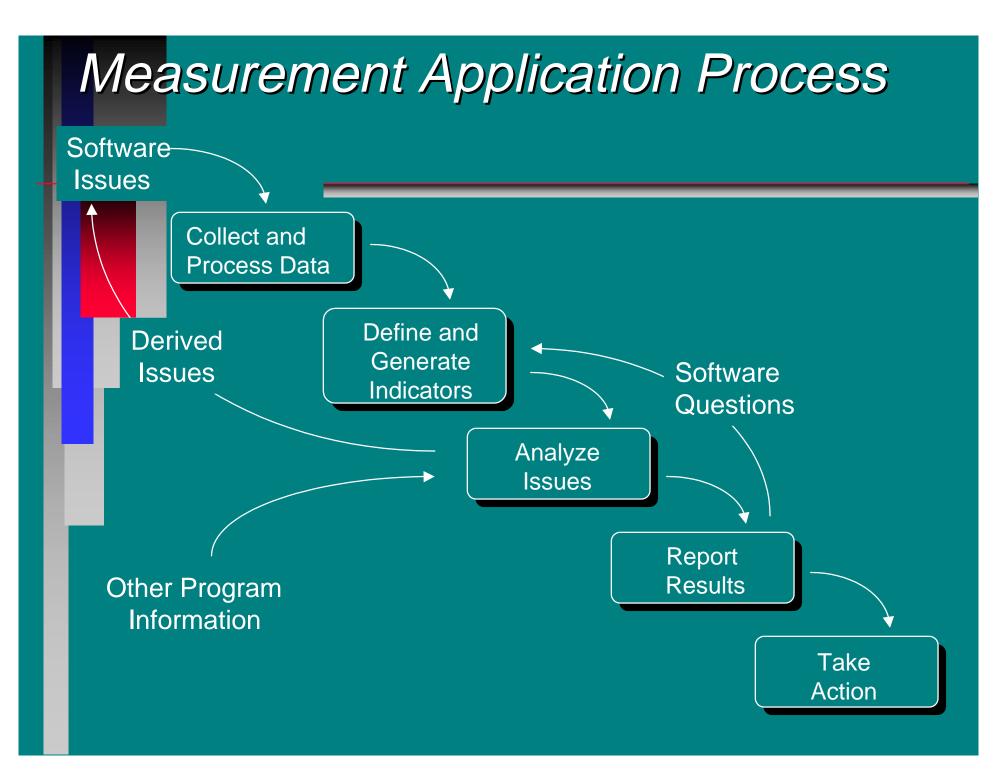
## Underlying Architecture

 Built on the PSM Measurement Process
 User Tailorable Issues, Categories, Measures and Data Formats
 Tool Functionality

- Tailoring
- Application
- Electronic Data Transfer







# **Underlying** Architecture (continued)

#### Data are organized using:

- Attributes
- Structures

Attributes: special data items which are used to characterize other measurement data (e.g. organization, activities, priority levels)

# Underlying Architecture (continued)

Structures: Special kind of attribute with multiple levels. Allows aggregation. Three structures in initial release:

- Component
- Work Breakdown Structure
- Function

Users cannot add a structure. Users can modify names of components, etc.

# Underlying Architecture (continued)

Data can be stored as totals to date, or as cummulative data
Indicator generation depends on knowing which of these options is selected

# **Planned Enhancements for Insight**

Integrated Risk Management Capability Flexible Project Control Panel Support for the Readiness Growth Model

More Extensive On-line Help



Written Guidance Tutorial Security Windows 3.1 Linkage to Risks at the Issue, Category or Measurement Level Upload to Repository Additional Features

#### Beta Test Procedures

Beta Testers Provide Software Trouble Reports to the Insight Beta Test Manager Also Provide Final Report Preferred Access to Insight Information through Contolled-Access Account on PSM Webpage Help Desk is Ready to Provide Solutions: COMM 703-979-9674 FAX 703-979-8187