

Workshop #1 - Defining the Future of Measurement Practice



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***U.S. Army Armament Research
Development and Engineering Command***

Measurement Practice - PSM

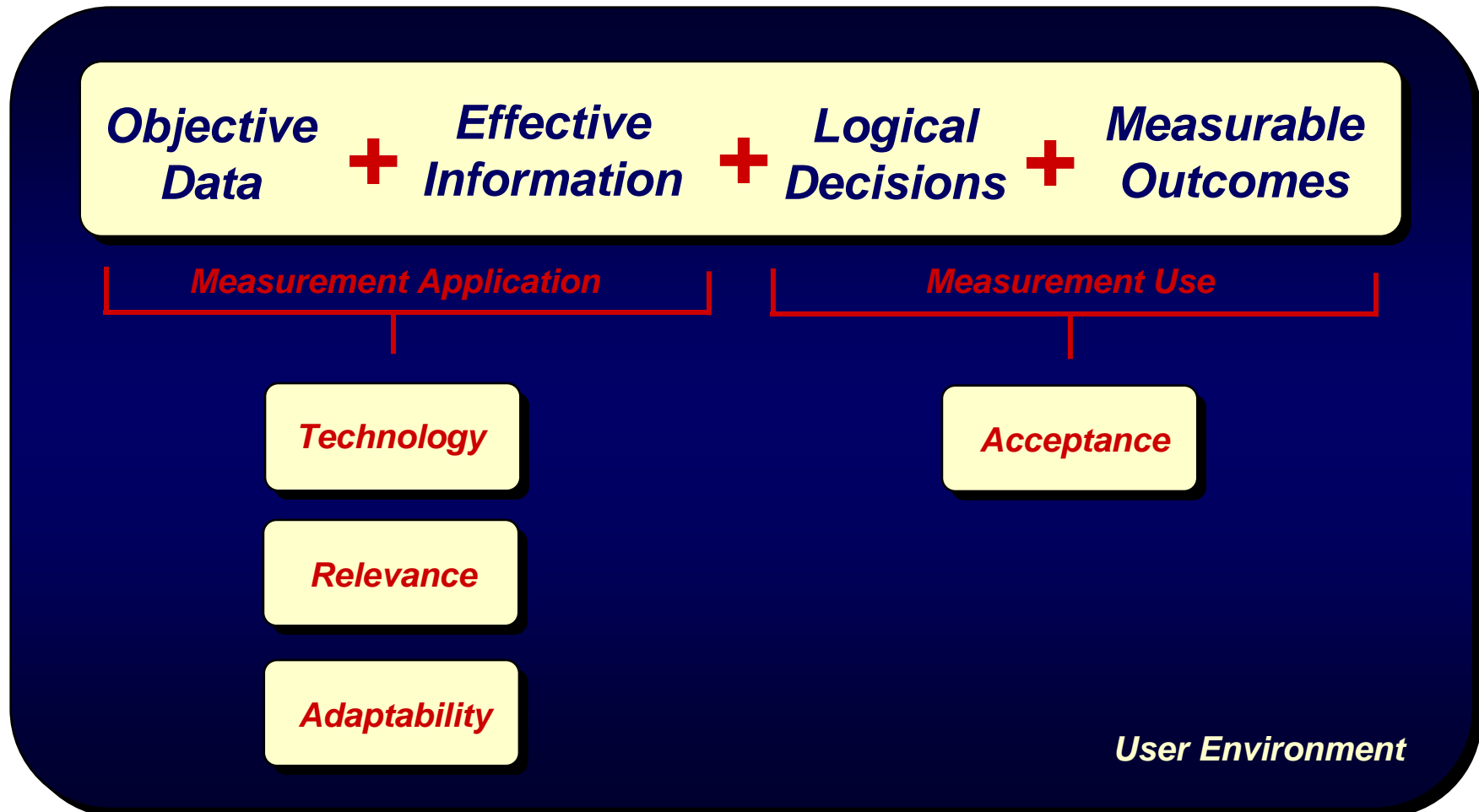
Where Have We Been?

Where Are We Now?

Where Are We Going?

How Do We Get There?

Measurement as a Practice



Group Discussion

- ***What is the Group's Experience?***
 - ***What are the "Acceptance" Success Stories?***
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- ***Measurement Technical Requirements***
 - ***Measurement Application & Efficiency***
 - ***Communicating Measurement Results***
 - ***Performance Focus***
 - ***Acceptance and Use of Factual Results***
 - ***Measurement Linked to Success***
 - ***Predictive Trust - Validated Leading Indicators***

Measurement Application Challenges

- ***Technical Requirements - Keeping Measurement Up to Date***
 - *what to measure*
 - *how to measure*
 - *analysis & estimation techniques*
 - *context based understanding*
 - *education*
- ***Measurement Scope & Efficiency***
 - *breadth of domain application*
 - *ability to change - quickly*
 - *high degree of flexibility*
 - *value added - cost*

Acceptance

- ***Ease of use and understanding versus enough info to preclude misuse and misinterpretation (manager only wants one slide)***
- ***Characteristics of the environment***
- ***Environment scope***
- ***Human behavior***

Measurement Acceptance Challenges

- ***Clear communication of actionable measurement results that decision makers want to use***
- ***Redirecting our focus from process to performance***
- ***Helping to create an environment where the “facts” are accepted - not ignored (or “enhanced”)***
- ***Linking measurement to “success” rather than the “prevention of failure”***
- ***Establish “predictive trust” in our results - objectively link the performance symptoms to the causes***

Technology

- ***Process***
- ***Information model***
 - ***data, base measures***
 - ***measurement specifications***
- ***Education***

Relevance

- ***Principle based practice - revisit principles***
- ***Multiple levels - project, organization***
- ***Multiple domains - software, systems engineering***

Adaptability

- ***Revisit ICM table (info needs - categories)***
- ***Tailoring schemes***
- ***What is the right vehicle for making information available***
 - ***white papers, measurement specifications***
- ***Rapid guidance response***
 - ***vehicles***

Next Steps

- ***Conference Workshop - Wednesday AM***
- ***2-day Workshop in New Jersey - Fall 2007***
- ***Interactive Development - PSM Web Site
(www.psmssc.com, under Forum)***

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PSM - What Hasn't Changed?

- ***Measurement Principles***
- ***Information Driven Measurement Process***
- ***Measurement Information Model***
- ***Integrated Analysis Concepts***
- ***Flexibility of the Guidance***
- ***Experience Based Team Contributions***
- ***Cost of the Products***
- ***Value to the User***
- ***Objective - Get Measurement Into Practice***

Measurement as a Practice

