

Practical Software and Systems Measurement

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A foundation for objective project management



***Decision Making in
Engineering Management
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Practical Software and Systems Measurement Decision Making in Engineering Management

- ***Engineering Management***
 - .. the art and science of planning, organizing, allocating resources and directing and controlling activities which have a technological component [ASEM]***
- ***Explore the application of measurement principles - PSM/ISO 15939 - to this domain***
- ***Develop support for EM decision making and obtaining objective information***

Objectives of the Workshop

- ***To explore the use of measurement to support decision making in Engineering Management***
- ***To define and scope the topic***
- ***To define the purpose of supporting this and how value could be delivered and for whom***
- ***To decide whether this merits an ongoing PSM effort / Working Group; make recommendation***
- ***If yes: define objectives, outputs and next steps***

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Workshop Format

1:30 Introduction

1:40 Discussion of scope and definition WHAT

2:00 Motivation and Objectives WHY

Discussion of Problems and issues

Existing solutions; inputs, communities; what's missing?

3:00 – 3:30 Break

3:30 Discussion of solution strategy HOW

Identify solution 'pieces, review strawman decision process

4:30 Recommendations

Judgment of level of interest

Re-direction?

Planning further development

5:00 Close

Workshop Background

- ***PSM 2010 Workshop at Users' Conf 2008, Mystic***
- ***Poor performance of defense acquisition projects; e.g. Bob's Charette's paper***
IEEE Spectrum, 2008 45(11): p. 33-39
- ***Case Study research in UK 08-09***
- ***How to improve the value of measurement programs?***

Intended Output

- ***Recommendations***
- ***Whether to continue this topic as a PSM workshop activity***
- ***If Yes:***
 - ***Rationale***
 - ***Definition and Scope***
 - ***Objectives***
 - ***Outputs***
 - ***Next Steps***
- ***If No:***
 - ***Rationale***
 - ***Residual Issues, Needs***
 - ***Recommendations***