

Practical Software and Systems Measurement

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A foundation for objective project management



**Systems Engineering Leading
Indicators**

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July 2008

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Systems Engineering Leading Indicators Workshop

- **SE Leading Indicators are measures that provide indications of the effectiveness of systems engineering**
- **This workshop will:**
 - **build on previous work in this area towards the revision of the SE Leading Indicators Guide**
 - **identify and prioritize additional candidate SE leading indicators, as well as other changes**

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Objectives of the Workshop

- **Share background and latest results from academia/industry/ government collaboration on leading indicators for systems engineering programmatic and technical performance**
- **Kick-off and prioritize efforts to enhance/ revise the SE Leading Indicators Guide**
 - **Additional indicators**
 - **Incorporate lessons learned and feedback for definitions, guidance and implementation**
- **Determine other support needed and get actions in place to address (e.g., Training)**
- **This is not intended to be a tutorial of the set of indicators**

Workshop Format

- **Agenda**
 - **Background**
 - **Review feedback received to date**
 - **Identify additional changes needed**
 - **Prioritize changes and establish recommendation for scope of revision**
 - **Establish path forward**
- **Techniques that will be used**
 - **Group interaction**
 - **Review of previous surveys, analysis and feedback**
 - **Gap analysis**
 - **Prioritization techniques**

Workshop Background

- ***PSM history in this area***
 - ***Beta version of SE Leading Indicators Guide published in Dec 2005***
 - ***SE Leading Indicators Guide published in June 2007***
 - ***Collaboration between LAI, PSM, INCOSE and industry***
 - ***Workshops held at PSM UG Conference in July 2007, GEIA Engineering and Technical Management Conference in Sep 2007***
 - ***SE Measurement Survey conducted by Don Reifer in June 2008***

Workshop Background

- ***Where we're heading***
 - ***Kick-off of revision efforts to enhance the guidance, address gaps, and incorporate lessons learned***
 - ***Plan for revision in early 2009***
 - ***Support revision with training***
- ***Issues***
 - ***How to balance addressing the needs without getting too much bulk***
 - ***How to balance providing enough specificity, yet remain flexible for broad application***

Intended Output

- ***Documentation of additional information needs/issues and indicators that are not currently addressed***
- ***Prioritized set of candidate changes***
- ***Recommendation of scope of the revision***
- ***Rationale for including/excluding previous feedback received***
- ***Plan for going forward***

Workshop Title

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Workshop Participants

PSM 9

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Summary

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Conclusions, Recommendations, and Results

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Next Steps/Action Items

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