Finding Useful CMMI® Models

CMMI® Technology Conference November 17-20, 2008











Agenda

- » Getting Creative with Predictive Modeling
- » Early in Life-Cycle
- » Within the Single Life-Cycle Phase
- » Important Business Issues
- » Summary
- » Q & A











Essence of CMMI Modeling

» OPP SP1.5 - Establish and maintain the process-performance models for the organization's set of standard processes.

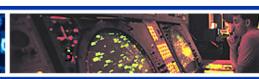
Sub-practice 1 - Establish the processperformance models based on standard processes and the process-performance baselines

» Organization uses process-performance models for estimating, analyzing, and predicting the process performance associated with the standard org processes.



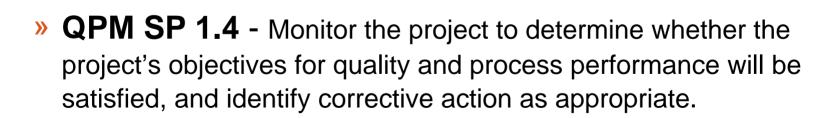






Essence of CMMI Modeling

- » Project uses process-performance models for estimating, analyzing, and predicting the process performance for their defined processes.
- » QPM SP 1.2 Select the sub-processes that compose the project's defined process based on historical stability and capability data.











Essence of CMMI Modeling

» Process-performance models are used to estimate progress toward achieving objectives that cannot be measured until a future phase in the project lifecycle.

» Identify something predictive so process-performance can be analyzed and changes can be proposed in "what-if" scenarios





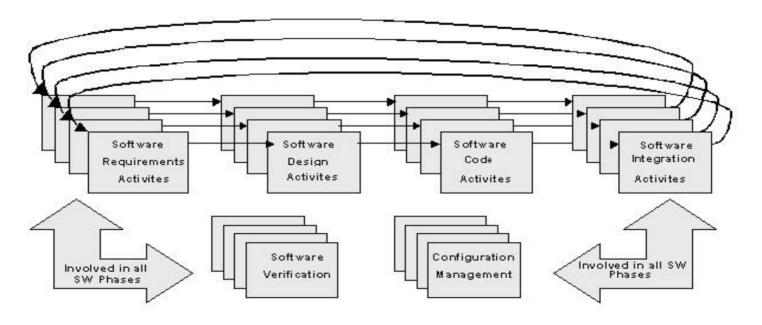






Early in Life-Cycle

- » Projects use process-performance models for selecting processes or subprocesses for use
- » Changes early in life-cycle can impact later phases





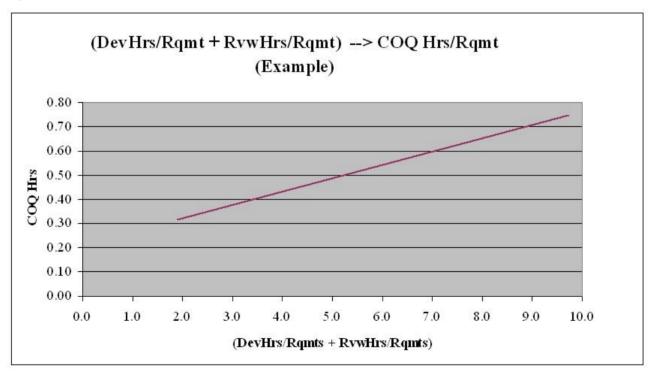






Example: Early in Life-Cycle

» Cost of Quality Example: How much rework is required and cost of that rework





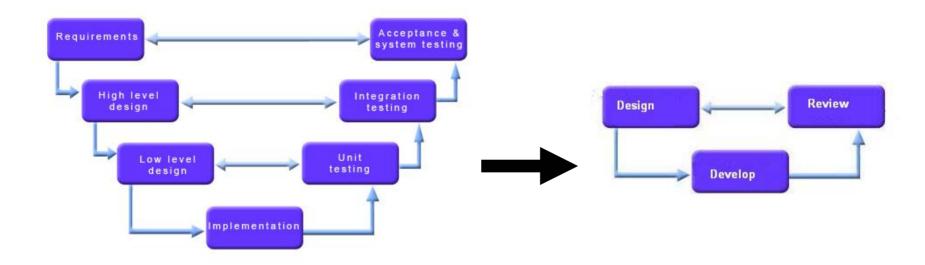






Within Single Life-Cycle Phase

» Use a mini-cosm of full life-cycle



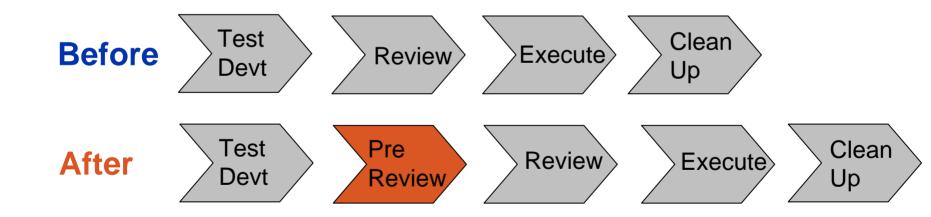






Example: Within Single Phase

» Testing Efficiency Example: Analyzed time to format and run tests vs. time saved on rework from pre-review











Business Issue(s)

» Select based on important business issue for











Example: Business Issue











How to Identify Models

- » Focus on what's important
- » Look at biggest benefits.
 Example: meeting timeline to get product to market
- » Review existing data collection what's important vs. what's available
- » Does evidence pass the sniff test?









Questions?



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