Ongoing CMMI Level 4/5 for Smaller Teams

CMMI® Technology Conference
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Agenda

» Ongoing High Maturity Challenges
» Establishing Statistical Basis
» Analyze Priorities
» Software Processes
» Summary
» Q & A
CMMI Maturity Levels

- Level 1 – Ad Hoc
- Level 2 – Repeatable
- Level 3 – Defined
- Level 4 – Managed
- Level 5 – Optimized

High Maturity = Challenge for Small Business
High-Level Challenges

» Quantitative process management and optimization

» Significant project data required for ongoing measurement
Establishing Statistical Basis

Level 2: Measurement and Analysis

**Purpose** - to develop and sustain a measurement capability that is used to support management information needs.
## Establishing Statistical Basis

### Measurement and Analysis

- **SG1** Measurement objectives and activities are aligned with identified information needs and objectives

- **SP1.1** Establish and maintain objectives that are derived from identified information needs and objectives

- **SP1.2** Specify measures to address the measurement objectives

- **SP1.4** Specify how measurement data will be analyzed and reported.

### Quantitative Project Management

- **SG2** The performance of selected sub-processes within the project’s defined process is statistically managed.

- **SP2.1** Select the measures and analytic techniques to be used in statistically managing the selected sub-processes.

- **SP2.2** Establish and maintain an understanding of the variation of the selected sub-processes using the selected measures and analytic techniques.
Analyzing Priorities

» What would provide the biggest help to reaching your business objectives?

» What would provide the biggest help to reaching your project goals?

» Where are you getting the most bang for your buck (80/20)?

» Where do you do most of your work?
Analyzing Priorities

» **Software Lifecycle**

» **Within Software Lifecycle phase**
Small Organization Solutions

» Group data from similar projects

» Pay attention to process characteristics

» Let the data lead you
Software Processes

» Personal Software Process (PSP)

» Team Software Process (TSP)
Summary

» Leverage Level 2 and 3 processes and metrics
» Look early in processes for big impacts
» Remember the 80/20 rule
» Combine projects, if necessary
» Consider PSP and TSP
Questions?

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