Ongoing CMMI Level 4/5 for Smaller Teams

CMMI® Technology Conference
November 17-20, 2008
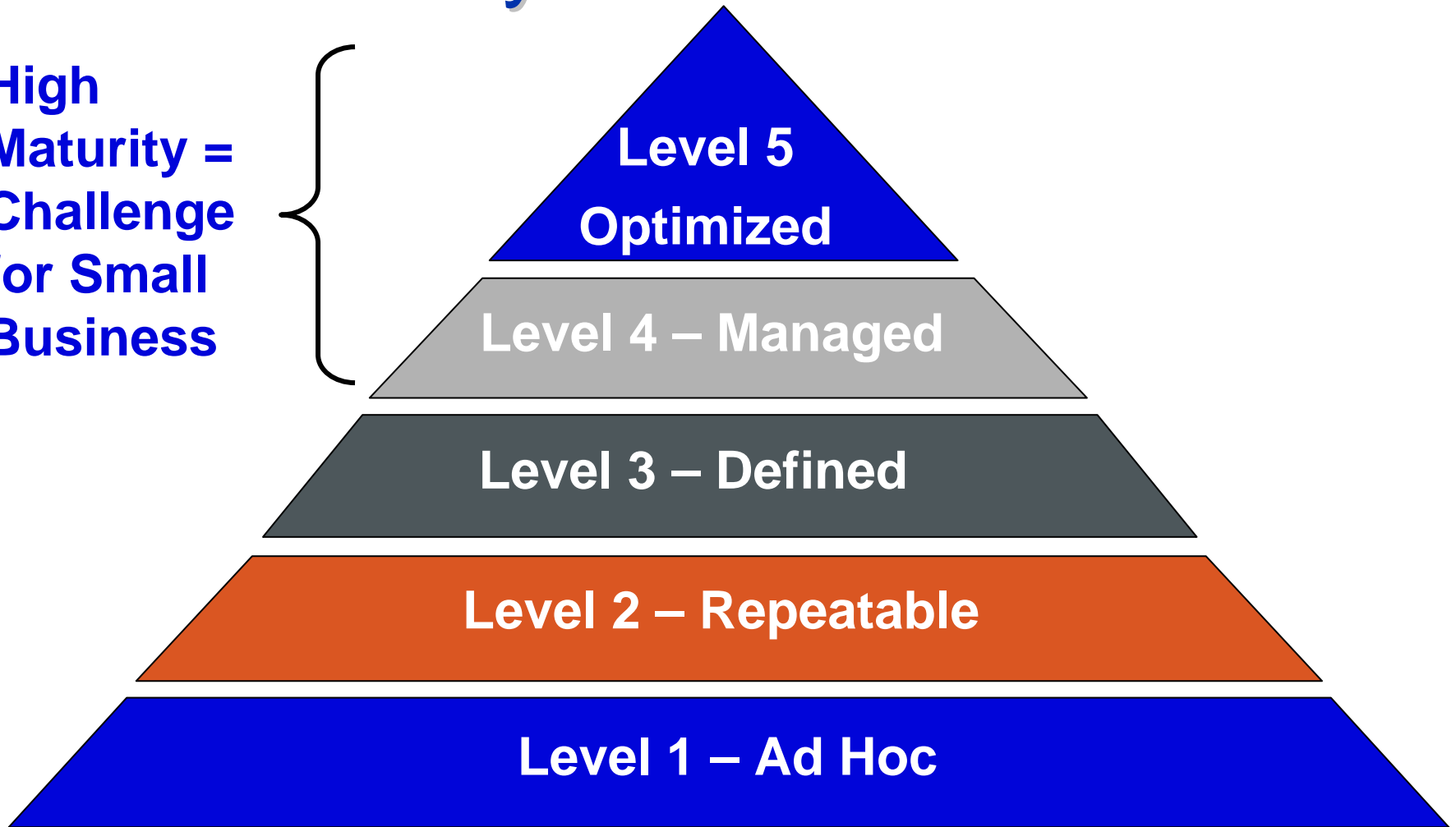
Agenda

» Ongoing High Maturity Challenges

» Establishing Statistical Basis

» Analyze Priorities

» Software Processes

» Summary

» Q & A

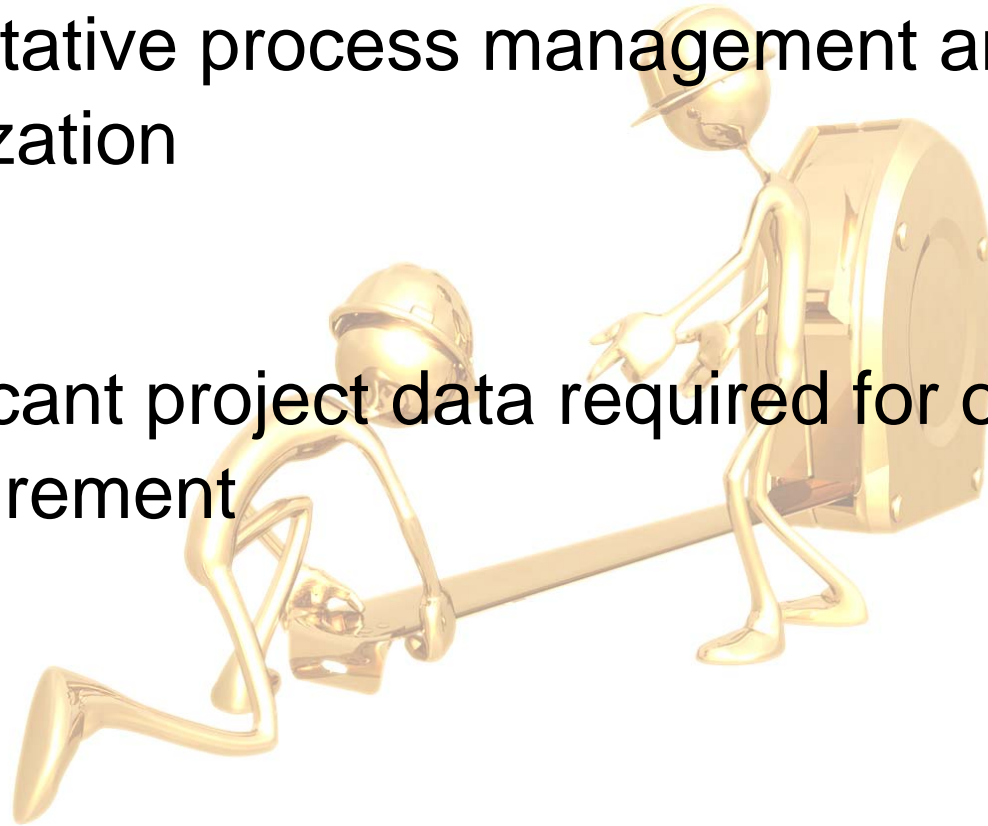AVISTA :: People. Process. Promise.

Esterline

CMMI Maturity Levels

High Maturity = Challenge for Small Business

Level 5 Optimized

Level 4 – Managed

Level 3 – Defined

Level 2 – Repeatable

Level 1 – Ad Hoc

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

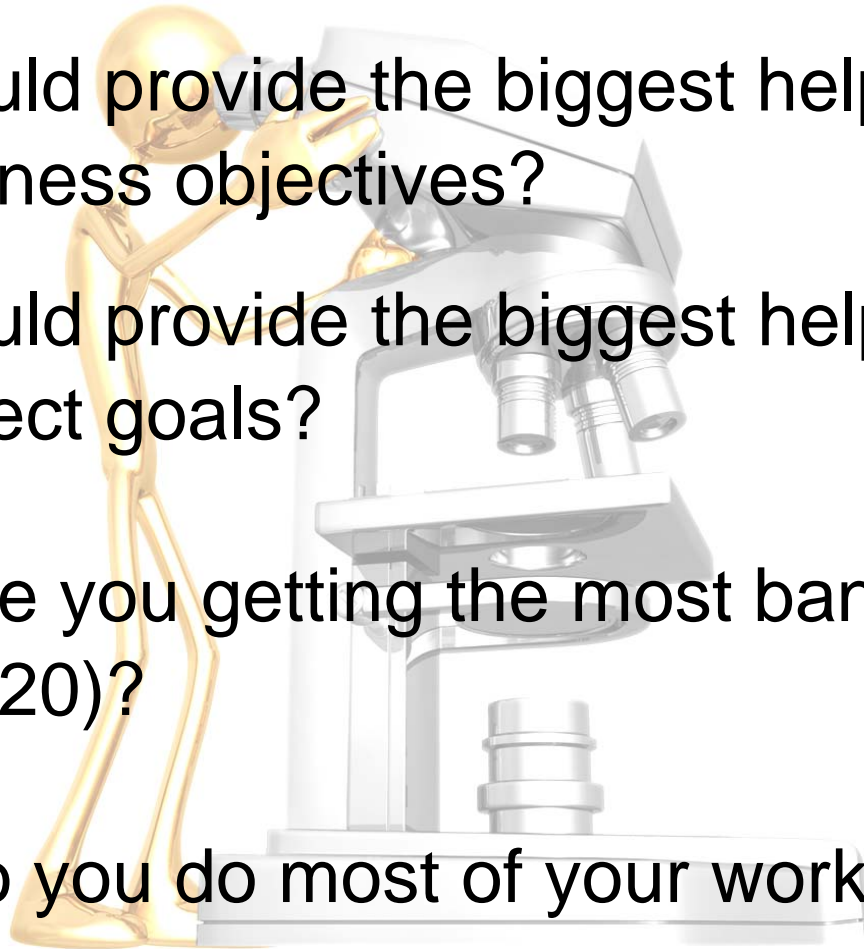» **SP1.4** Specify how measurement data will be analyzed and reported.

» **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.
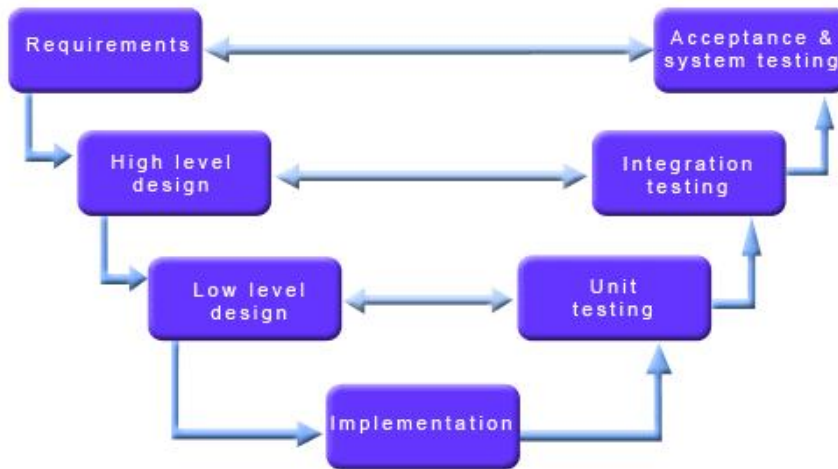
Analyzing Priorities

» 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?
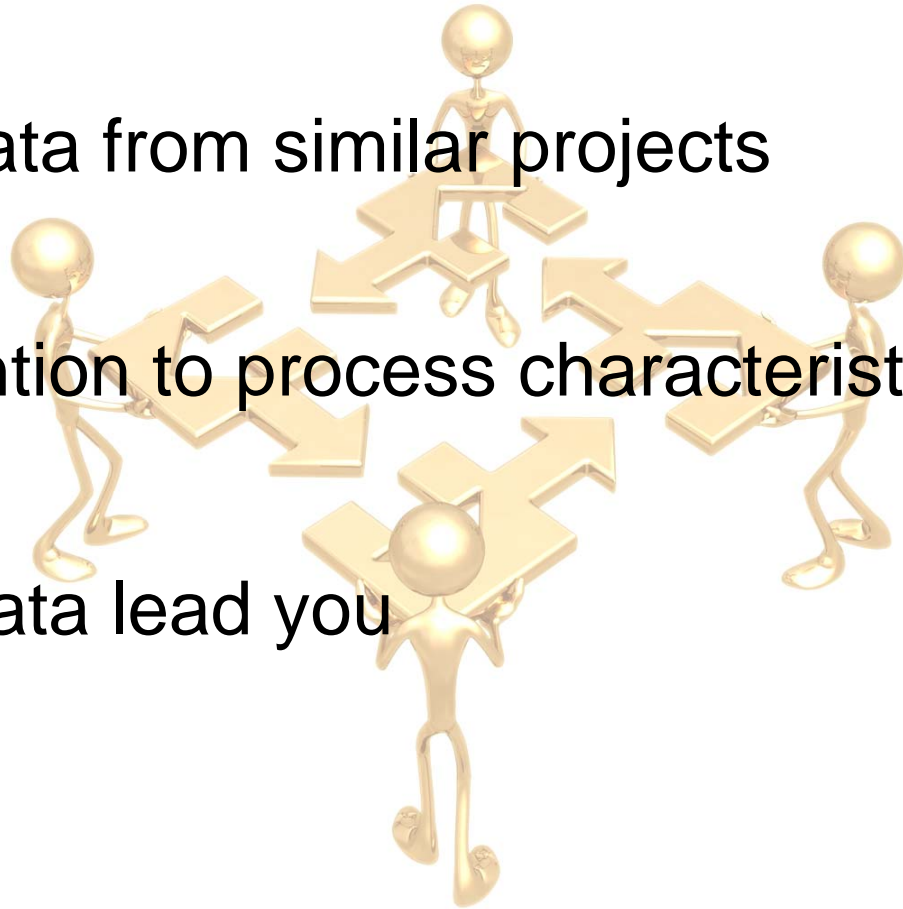
Analyzing Priorities

» *Software Lifecycle*

» *Within Software Lifecycle phase*

Small Organization Solutions

» Group data from similar projects

» Pay attention to process characteristics

» Let the data lead you
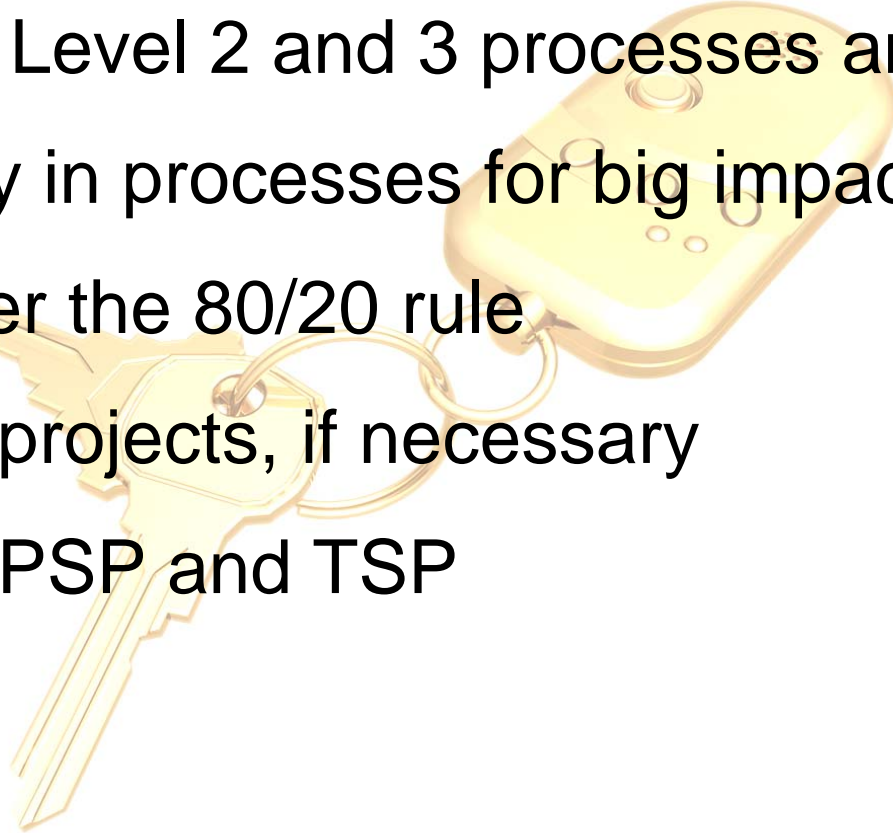
Software Processes

» *Personal Software Process (PSP)*
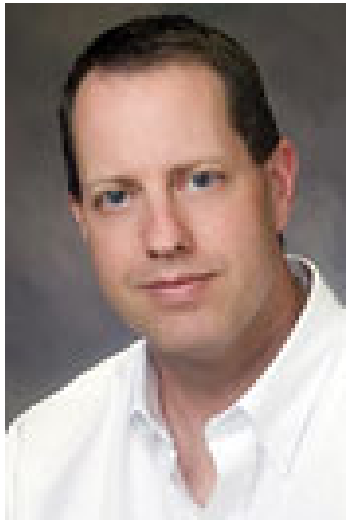
» *Team Software Process (TSP)*

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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