

Ongoing CMMI Level 4/5 for Smaller Teams

CMMI[®] Technology Conference
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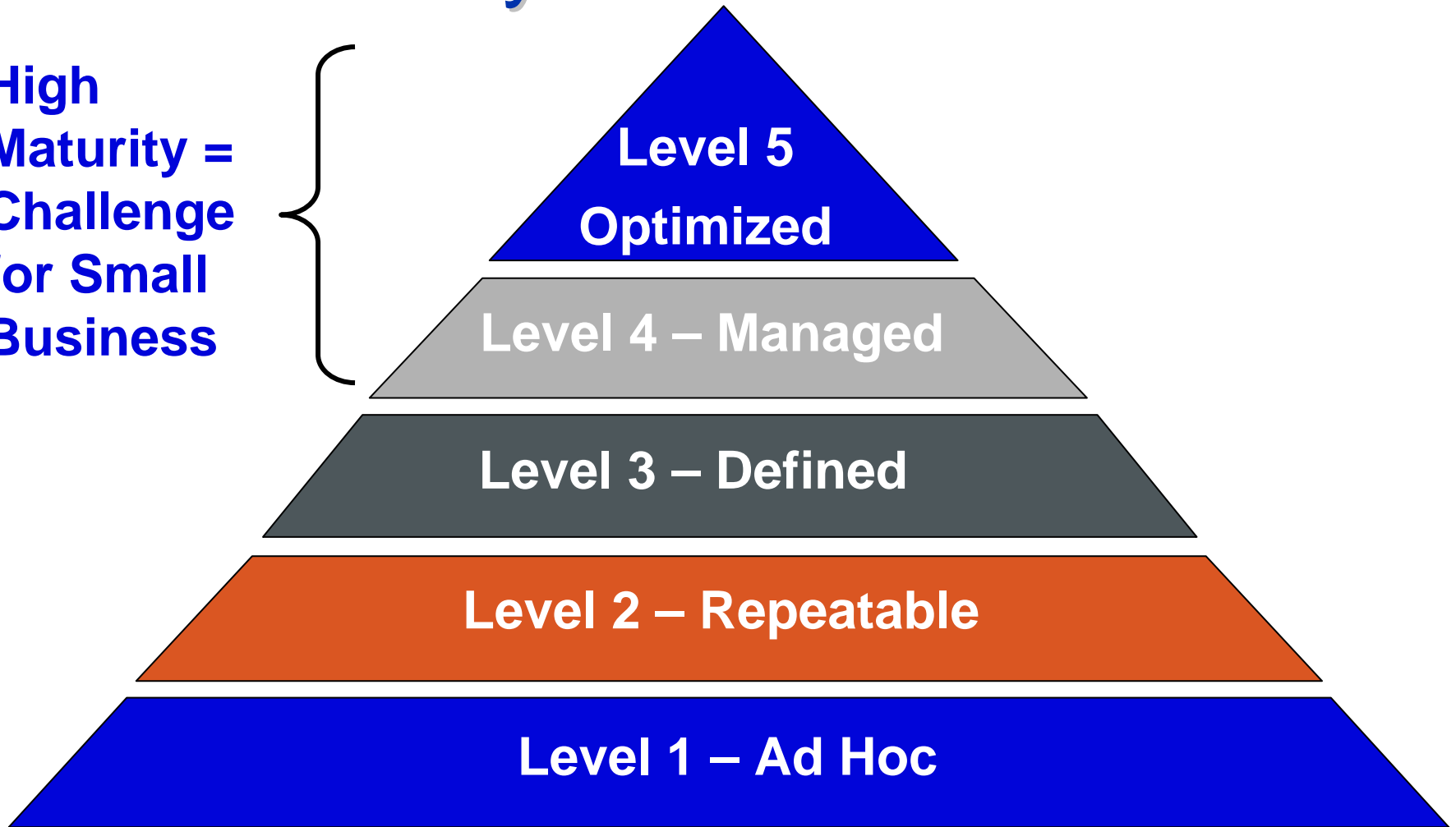
Agenda

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



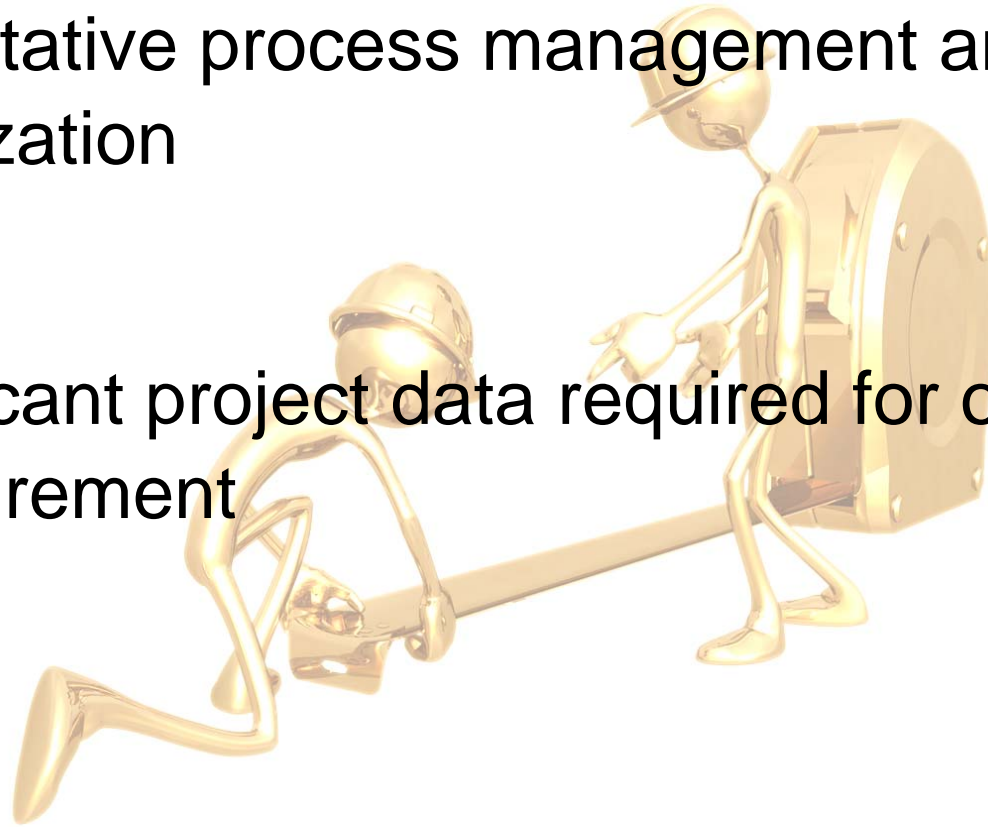
CMMI Maturity Levels

**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.

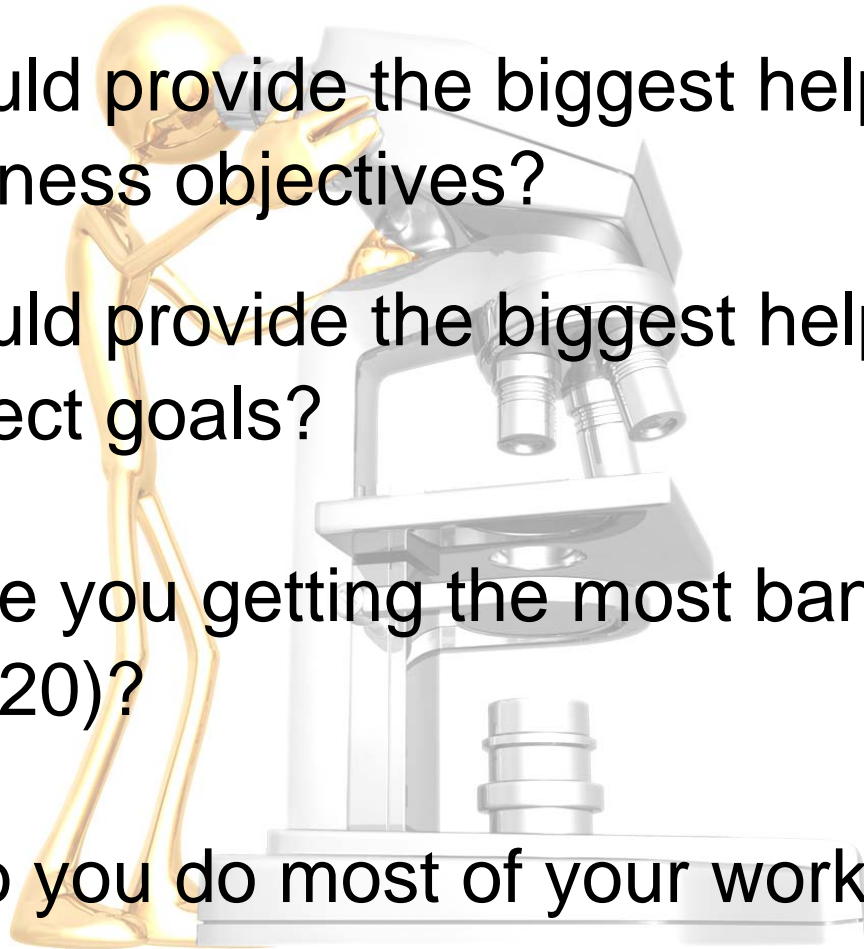
» *Quantitative Project Management*

- » **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.



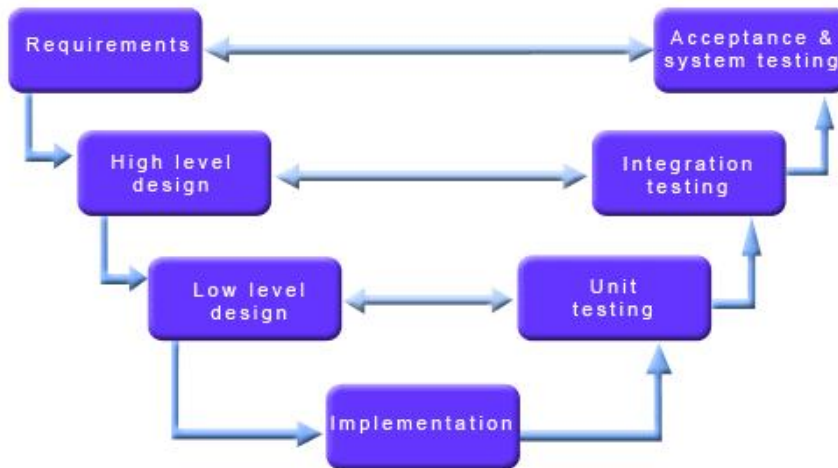
Analyzing Priorities

- » 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?

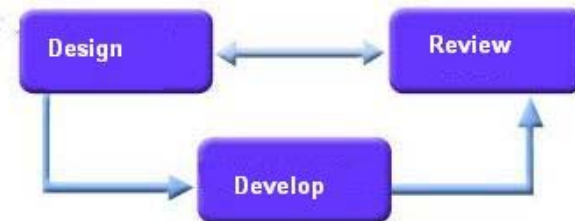


Analyzing Priorities

» *Software Lifecycle*

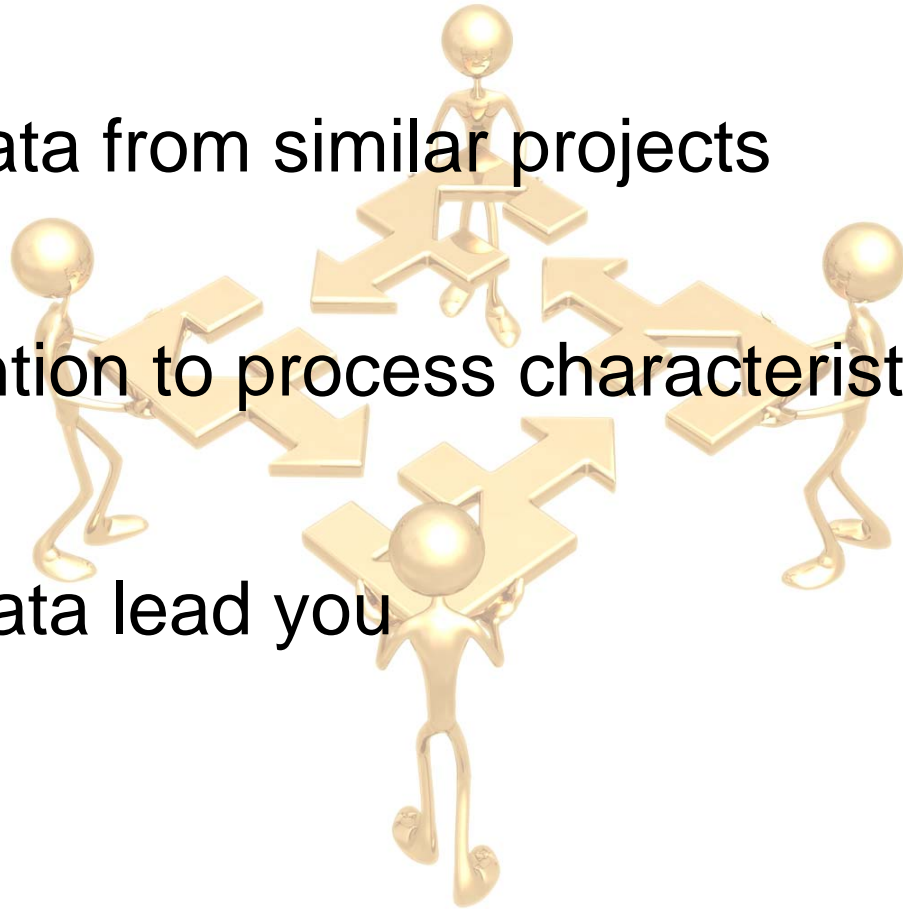


» *Within Software Lifecycle phase*



Small Organization Solutions

- » Group data from similar projects
- » Pay attention to process characteristics
- » Let the data lead you



Software Processes

» *Personal Software Process (PSP)*

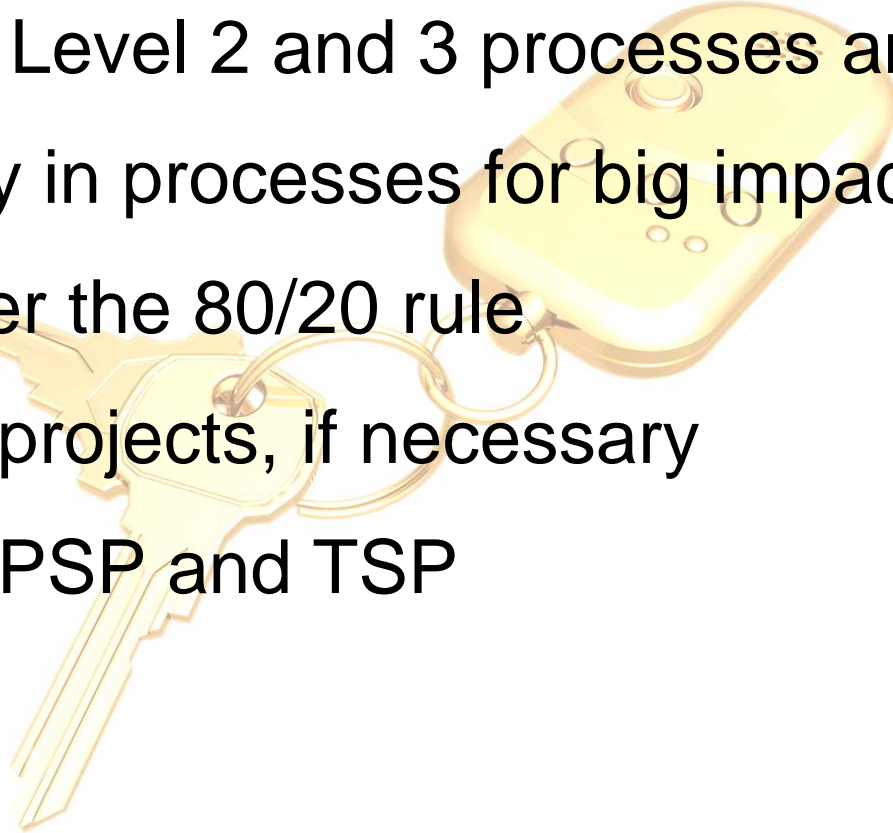


» *Team Software Process (TSP)*



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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