



CMMI® and **OPM3®** Collaborative Opportunities

CMMI Technology Conference Denver, Colorado November, 2007

"OPM3" is the registered trademark of the Project Management Institute "CMMI" is the registered trademark of Carnegie Mellon University







commentator

The state of being fully developed

The time after physical growth has stopped

www.dictionary.com

Maturity State: An organization degree of maturity in organizational project management (*OPM3*)

Maturity Level: Degree of process improvement across a predefined set of process areas in which all goals in the set are attained (*CMMI*)

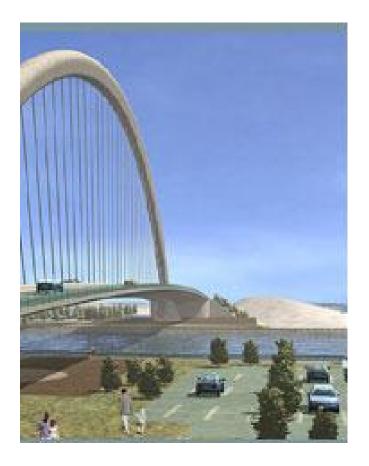




Thank you for using PDF Complete. s are we talking about?

Click Here to upgrade to Unlimited Pages and Expanded Features





PDF Complete. re precise about models...

A small object, usually built to scale, that represents in detail another, often larger object

An abstraction of reality

worthy of imitation; %exemplary behavior+

representation of something

www.dictionary.com





you get 'maturity models'

Conceptual framework

Useful references for process improvement

Should allow organizations to assess themselves against

Should be based on broad consensus

A <u>www.google.com</u> search in April, 2005 provided 268,000 hits when 'Maturity Model' was used as the search item... a revised search in October 2007 revealed 2,480,000!

bdels from the SEI and CMU have been

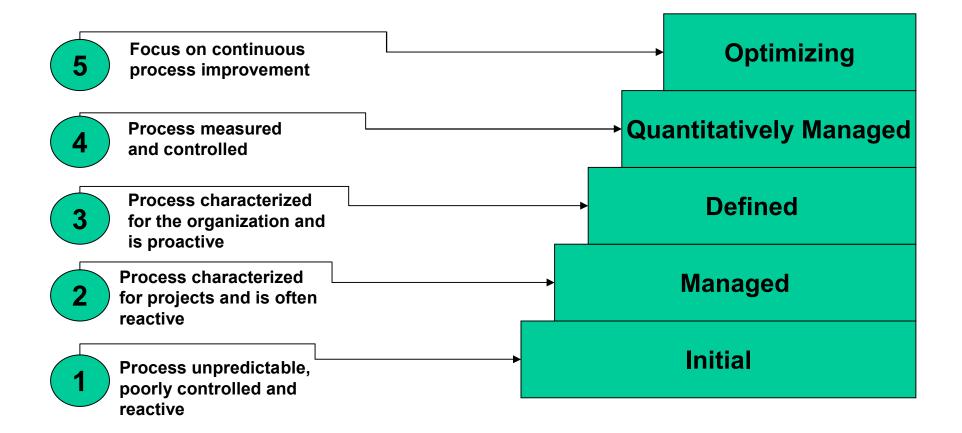
CMMI for Development Version 1.2 published by SEI and CMU in 2006

- Replaces Legacy CMMcs no longer supported by SEI
- Incorporates Four Disciplines
 - Systems Engineering
 - Software Engineering
 - Integrated Product and Process Development
 - Supplier Sourcing

CMMI for Acquisition Version 1.2 published by SEI and CMU in 2007

- " Uses Core Model Foundation Material with Acquisition
- Meant for acquirers instead of developers

ged Representation Maturity Levels helps of *CMMI*



Intermediate CMMI V 1.1 Topic 0803 – Page 12

©2003 by Carnegie Mellon University



/ process areas provides a perspective on the overed

Project Planning

Project Monitor & Control

Supplier Agreement Management

Requirements Management

Process and Product Quality

Assurance

Configuration Management

Measurement and Analysis

Integrated Project Management

Risk Management

Organization Process Focus

Organization Process Definition

Requirements Development

Technical Solution

Product Integration

Verification

Validation

Decision Analysis and Resolution

Organizational Environment for

Integration

Quantitative Project Management

Organizational Process Performance

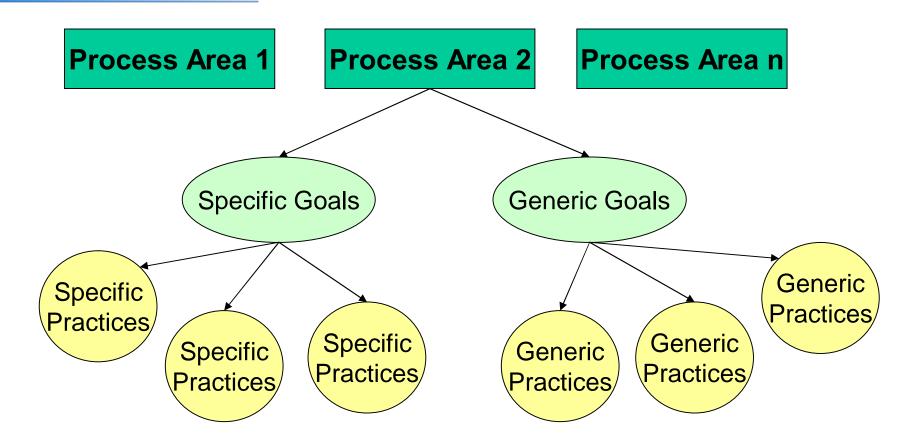
Organizational Innovation and

Deployment

Causal Analysis and Resolution



onents include process areas, generic and eric and specific practices



CMMI models also include other informative materials

- Typical Work Products
- " Sub-practices
- " References



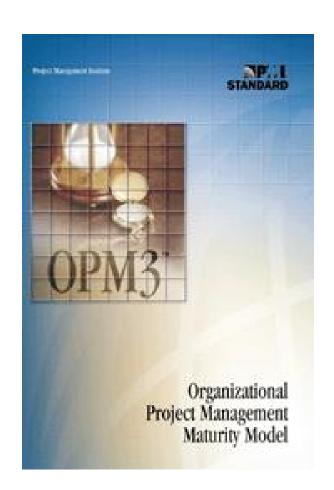
dard to address organizational project

Published by PMI in December, 2003

5 year project with over 800 global volunteers

Beta-tested by 25 companies in varying industries before release

First standard to define Organizational Project Management

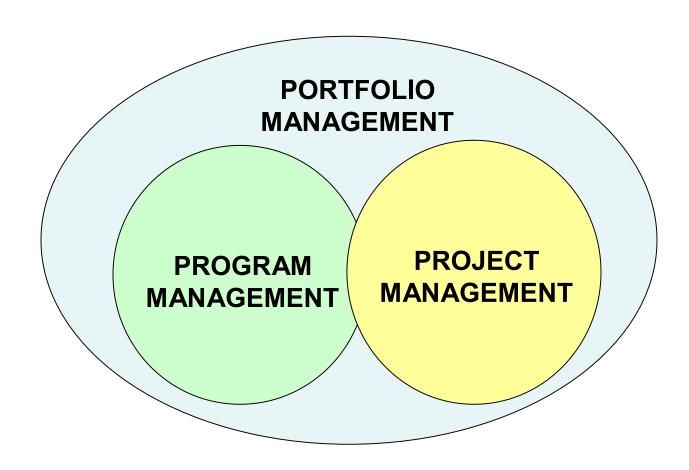




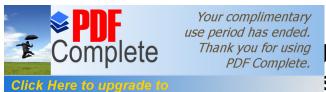
al project management?

The application of knowledge, skills, tools and techniques to organizational and project activities to achieve the aims of an organization through projects.+

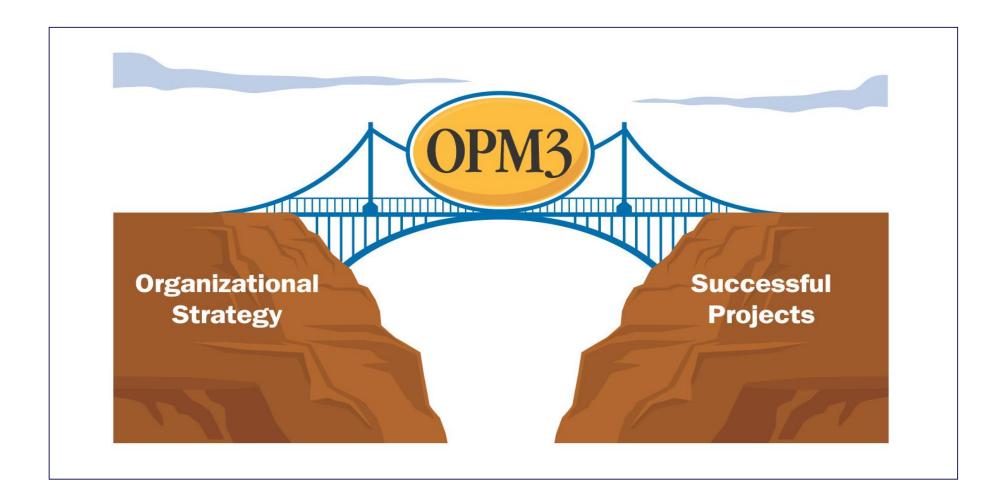
OPM3® Knowledge Foundation, p. 5



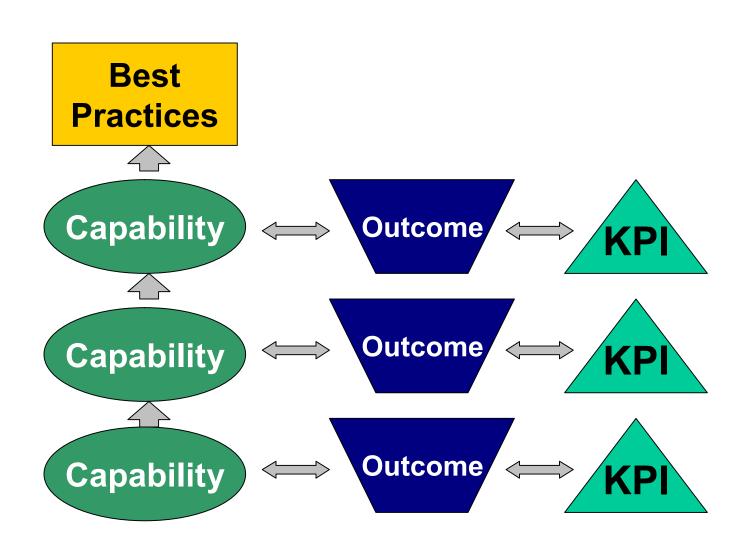
OPM covers three domains



ing the gap between an organization's strategy

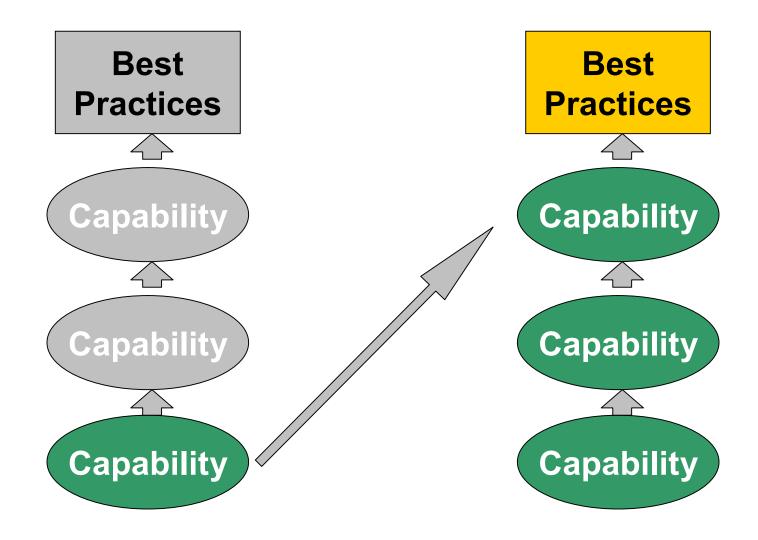


onents are Best Practices, Capabilities, Outcomes ndicators



Click Here to upgrade to

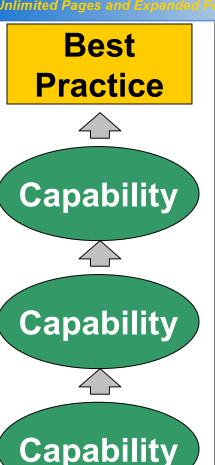
re created equal ... some are dependent on others





pdf Complete. ows a best practice with three capabilities

Click Here to upgrade to Unlimited Pages and Expanded Features



Project Initiation Process Control: Project Initiation Process controls are established and executed to control the stability of the process.

Stable Project Initiation Process Operations

Implement Project Initiation Process Control Plan

Project Initiation Control Plan

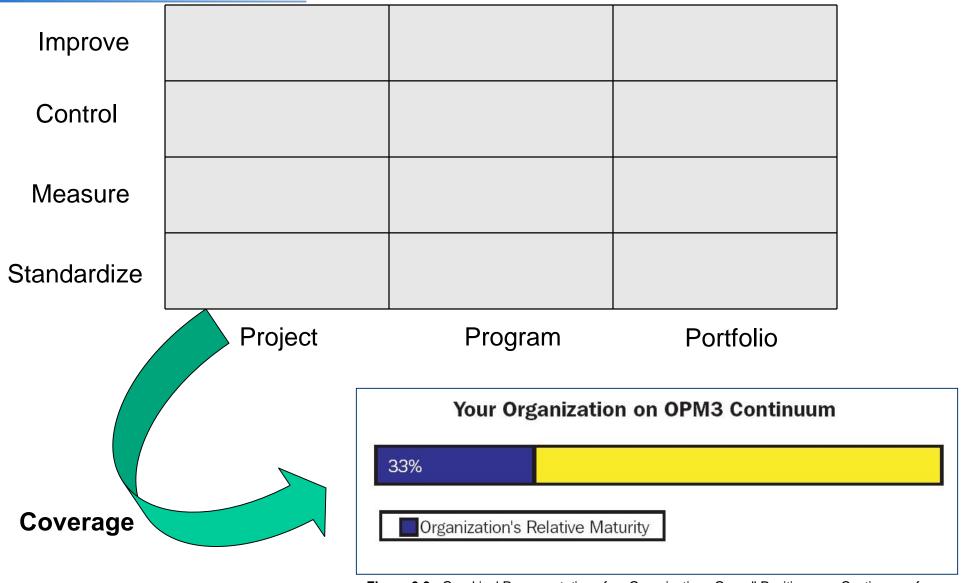


Project Initiation Process Measurement

Project Initiation Process Standardization



gorized by "PPP" and "SMCI" – more coverage of ads to higher score



©2003 by Project Management Institute

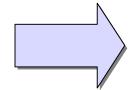
Figure 6-3: Graphical Representation of an Organizations Overall Position on a Continuum of Organizational Project Management Maturity



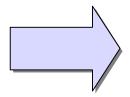
w organizations can use both *CMMI* and *OPM3*, we that could be used to compare similar 'guides'

Click Here to upgrade to Unlimited Pages and Expanded Features

Contents



Application



Results

Discipline

- " Sales
- " Manufacturing
- " Engineering
- Project Management
- " Marketing
- " Legal

Domain

- " Industry
- Company size

Key question:

" Does the content conflict?

Approach or method

Extent of the change

- Which parts of the organization?
- Mow much will it change the organization?

Resources

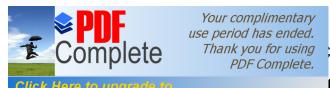
- " Specific tools
- " People
- " Training
- " Expertise

Key questions:

- What do I need to do to see benefit from using this guide?
- " Where do I get help?

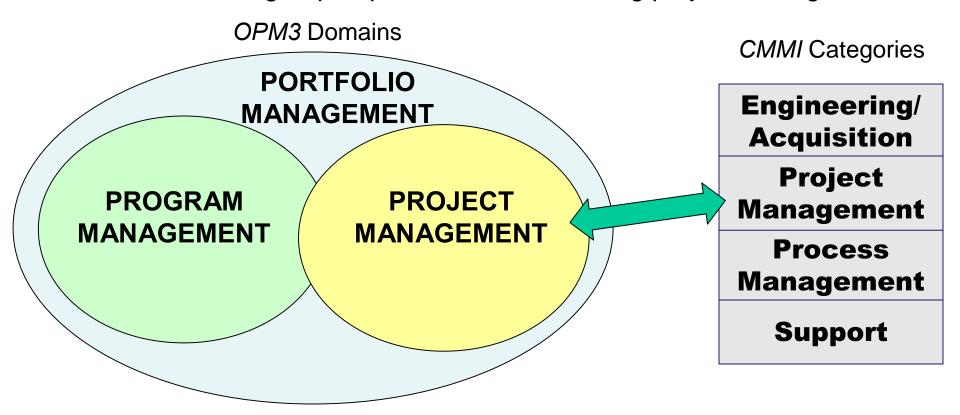
Key Questions:

- " What will be improved?
- " How will it be sustained?
- What do I really expect to get out of this?
- " What can I expect?



over project management and process onflict but differently

OPM3 covers the domain of project management CMMI covers a group of process areas covering project management



Some of this other stuff is different!

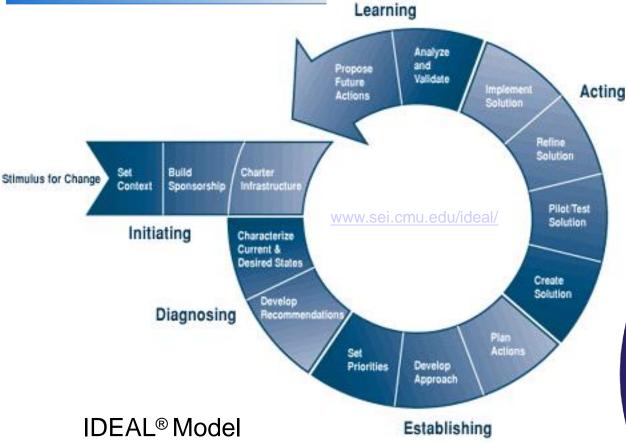
OPM3 distinguishes between project and program management and addresses portfolio management

CMMI covers technical disciplines related to acquisition or development



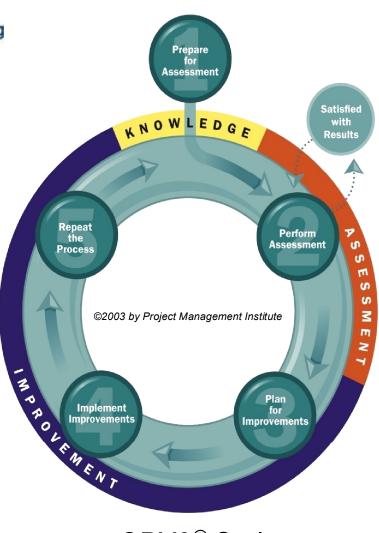
think about applying *OPM3* or *CMMI* is similar

Unlimited Pages and Expanded Features Future



The SEI often references the IDEAL model when describing how to apply CMMI

The *OPM3* Cycle is part of the standard



OPM3® Cycle



for both models vary in terms of depth and

Click Here to upgrade to

Assessment Type	ОРМ3	СММІ
Entry-Level "Short duration "Minimal resources "Low level of rigor	Self Assessment (SAM) "Comes with OPM3 standard "Shows approximate organizational maturity on overall continuum "151 binary (yes/no) questions "Can be performed by anyone "No specific requirements	SCAMPI C (or ARC Compliant Gap Analysis) "Organizations can assess whatever areas of risk are most important to them "Outputs show which model areas are most at risk "Conducted by as few as one appraiser "Only one piece of evidence (artifact or verbal affirmation through interview) is required
Mid-range "More effort "More rigor	OPM3 ProductSuite Desk Assessment "Requires assessor to look at capabilities and outcomes with process owners "Shows approximate organizational maturity if rest of organization is following process "Must be performed by a certified ProductSuite Assessor "Requires evidence or testimony to demonstrate capabilities and outcomes	"Organizations can assess whatever areas of risk are most important to them but often focus on full coverage of a maturity level "Outputs show which areas are most at risk "Must be conducted by a minimum of 2 team members and an authorized team leader "Multiple pieces of evidence (artifact or verbal affirmation through interview) are required
SEI or PMI authorized rating "Significant effort "Significant rigor	OPM3 ProductSuite Rigorous Assessment Requires assessor to look at capabilities and outcomes with process owners and practitioners Results in a benchmark of organizational project management maturity Must be performed by a certified ProductSuite Assessor Requires multiple pieces of evidence and testimony to demonstrate capabilities and outcomes	"Organizations coverage of a maturity or capability level "Outputs include a maturity or capability level "Must be conducted by a minimum of 4 team members and an authorized lead appraiser "Multiple pieces of evidence (artifact or verbal affirmation through interview) are required. How about combined assessments?



quires change management and both provide nts to maturity

Change management is required for a successful usage of CMMI or OPM3

- " Management Support
- " Budget
- " Resources
- " Time
- " Tools



Commitment!

Organizations cand go directly to best practices over night

Both models provide stepping stonesqto higher levels of maturity

PDF Complete. **V13** have both reported significant results

Users of *OPM3* have reported

- " Higher levels of customer satisfaction
- Increase in their PM capabilities and aligned processes to the *PMBOK*® *Guide*
- Visibility to how well they use their resources once they develop their portfolio management capabilities

Users of CMMI have reported

- Reduction in software costs either directly by streamlining processes or indirectly by performing less rework.
- Productivity increases of 20% to 30% from their engineering staff
- Quality objectives were met and the numbers of defects were reduced by using CMMI

Organizations that apply both *OPM3* and *CMMI* together can expect results as described above and will most likely see additional benefits such as:

- Reviewing the overall portfolio using the best practices from *OPM3* and freeing up resources to work on projects leading to innovation while leveraging the process areas from *CMMI* to execute those projects predictably and successfully
- Using the project and program management guidance from *OPM3* to figure out how to apply the planning and monitoring and controlling advice that is documented in *CMMI* and implement it at different levels of the organization
- Achieving either *OPM3* or *CMMI*-related objectives (e.g., cost, quality, or schedule improvements) faster than if they would by just considering one model alone because each model can provide a different perspective on the organizational opportunities



Click Here to upgrade to Unlimited Pages and Expanded Features

gement Maturity – a global telecommunications prove PM capabilities as a competitive advantage

Situation

A CMM Maturity Level 3 rated organization with a large number of Project Management Institute (PMI) Certified Project Management Professionals (PMPs) seeking to achieve world class project management processes

The organization was acquired so the management team also wanted to demonstrate their overall project management capability and take a lead in the new combined entity to integrate other departments and resources

Solution

Collaboratively plan for an organizational assessment with the organizational leadership and key team members to ensure the right resources were available at the right time to obtain the data needed to establish a baseline everyone understood

Measure and baseline capabilities using the OPM3® ProductSuite

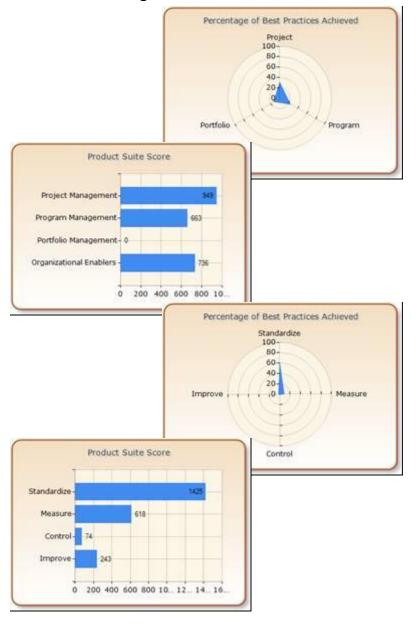
Train organizational resources on critical areas where gaps were identified from the assessment in order to start the movement toward organizational process improvement and build shared vision for the future processes

Benefits

By using *OPM3*, company management was able to identify a root-cause problem of a lack of integration between the engineering and sales functions (lack of overall program management)

The company also improved visibility to the portfolio management process and identified immediate opportunities for improvement

Performance Results formally reported through *OPM3®* ProductSuite



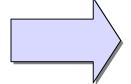


Your complimentary use period has ended. Thank you for using PDF Complete.

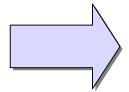
Unlimited Pages and Expanded Features

ts of the two models, the way organizations apply ganizations expect, support each other





Application



Results

Key question:

" Does the content conflict?

Conclusions:

- CMMI and OPM3 both address project management in a complimentary way
- OPM3 also covers program and portfolio management
- CMMI also covers engineering and technical best practices
- Both models stress process improvement and support

Key questions:

- What do I need to do to see benefit from using this guide?
- Where do I get help?

Conclusions:

- " CMMI and OPM3 both have a similar application style (see IDEAL model and OPM3 cycle)
- Both require change management to be successful
- Both have certification processes in place to help find qualified professionals

Key Questions:

- " What will be improved?
- " How will it be sustained?
- What do I really expect to get out of this?

Conclusions:

- Users have reported customer satisfaction, cost savings, and more productivity
- Both models stress process improvement to sustain change
- When you use CMMI and OPM3 together, you should have high expectations for results



rtunity to talk about CMMI and OPM3!

Questions?

Comments?

Contact Information

Tom Keuten
Pariveda Solutions
101 W. Big Beaver Road
Suite 1400
Troy, MI 48084

tom.keuten@parivedasolutions.com

248.224.2140