

CMMI – Smart Use by Acquirers

PEO and Program Systems Engineers Roundtable

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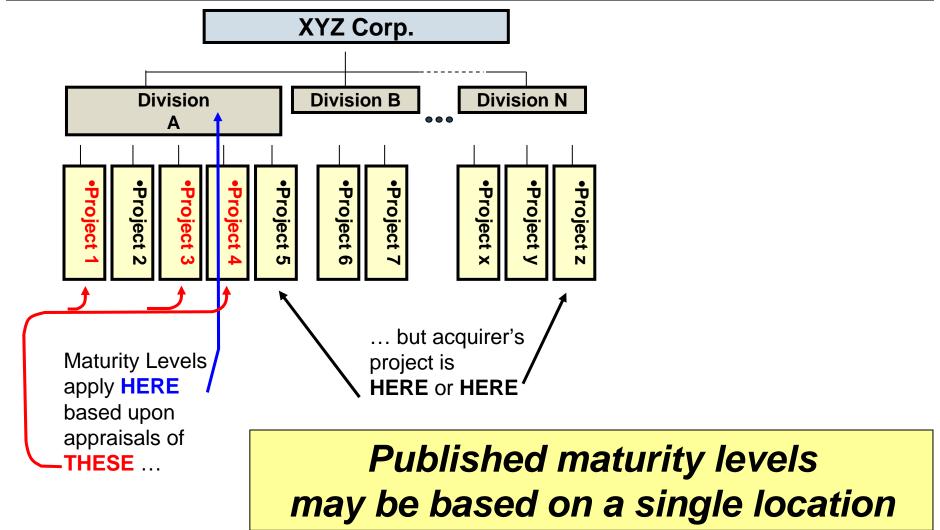


CMMI: Implementation Issues

- Developers execute at lower maturity levels than their organizations have achieved and advertised
- Assurance that new projects will incorporate CMMI processes
- Appraiser quality training, consistency
- Lack of agreement on what constitutes Levels 4 and 5
 - Requirements for demonstrated behavior
 - Definition of Levels 4 and 5 themselves
- Appraisal disclosure statement content
 - Coverage of the organization appraised
 - Performance on individual process areas
- Training and education for acquirers
- CMMI misuse in source selection



One Problem





Improvements Made to CMMI v1.2

- The Model
 - New material added to ensure an organization's processes are used at project start-up
- The Appraisal Method
 - Instituted 3 year limit for which an appraisal is valid
 - Expanded content of Appraisal Disclosure Statement (ADS):
 - Precisely define organization unit and projects appraised; name, location, size, products, application domains
 - Improved project sampling rules
 - Require public posting of appraisal results for organizations that claim a level in proposals or advertising
 - http://sas.sei.cmu.edu/pars/
- Appraiser Training and Certification
 - Updated qualifications, conducting certification with oral exams
 - Developed high maturity course, body of knowledge



Acquirer Knowledge and Resources

- Issue: Inadequate CMMI training and education for acquirers
- New Resources: Guidebook and Model
 - Understanding and Leveraging a Supplier's CMMI
 Efforts: A Guidebook for Acquirers published
 - Guidance for an acquirer to understand and leverage a supplier's use of CMMI for Development (CMMI-DEV)
 - CMMI for Acquisition (CMMI-ACQ) model to be published 1 November
 - Best practices for process improvement in an acquisition office



Key Tips in the Guidebook

- Do not ask for CMMI maturity levels in RFPs
 - Ask for capability in processes that are key to the success of your program
- Read the Appraisal Disclosure Statement (ADS)
 - Determine what part of the organization was actually appraised and how it relates to your program
 - For high maturity (levels 4 and 5), determine what processes were actually improved
 - Ask for clarification, appraisal findings if needed
- Recognize that levels are a result of appraisals that cost money
 - Can achieve results using other assessment techniques
 - Can do post-award checks to ensure your project is implementing its promised processes



Bottom Line on use of CMMI in DoD

- DoD does not place significant emphasis on capability level or maturity level ratings
 - CMMI is a tool for internal process improvement
- Lack of emphasis on ratings is prudent
 - Findings that not all suppliers are exhibiting behavior consistent with their attained CMMI maturity level rating
- Essential that DoD and industry use CMMI capability in the right manner, with appropriate measure, in order to realize benefits
 - CMMI-DEV provides a set of best practices to be employed by the supplier



Process Improvement Opportunities for the Acquirer

- Acquisition Module (CMMI-AM v1.1)
 - Concise (less than 40 pages) collection of best practices for an acquisition organization
 - Self-assessment "checklist" for internal process improvement
- Acquisition Model (CMMI-ACQ)
 - Full CMMI model of best practices and implementation approaches for an acquisition organization
 - CMMI-appraisable for benchmarking, certification as well as internal process improvement



Questions/Comments?

Guidebook:

http://www.sei.cmu.edu/publications/documents/07.reports/07tr004.html

CMMI-ACQ Model:

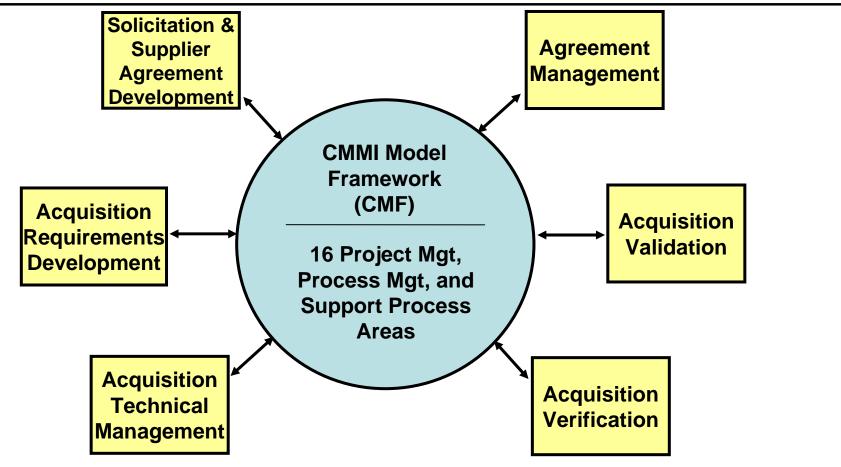
http://www.sei.cmu.edu/cmmi/models/index.html

CMMI-AM Module:

http://www.sei.cmu.edu/publications/documents/05.reports/05tr011.html



CMMI-ACQ v1.2 Acquisition Category Process Areas



ACQ PAs seamlessly interact with all CMF PAs through ACQ-specific material added to CMF PAs



Acquirer and Supplier Mismatch

