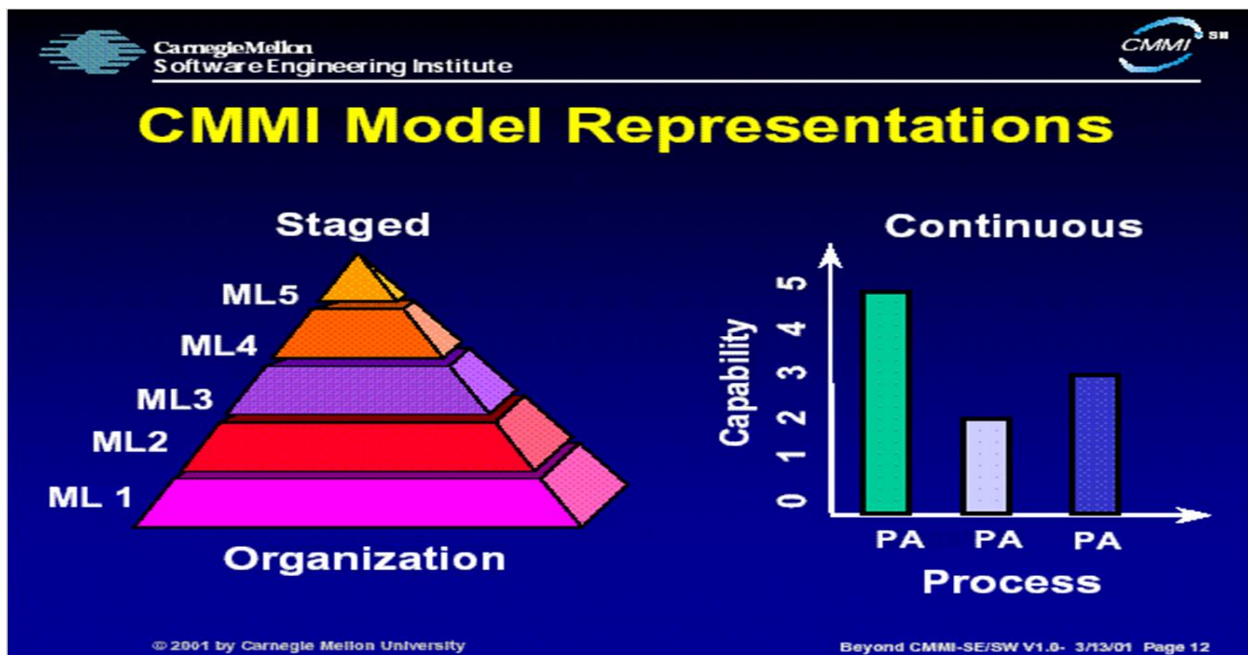


CMMI V 1.3 (Capability Maturity Model Integration)

History of CMMI

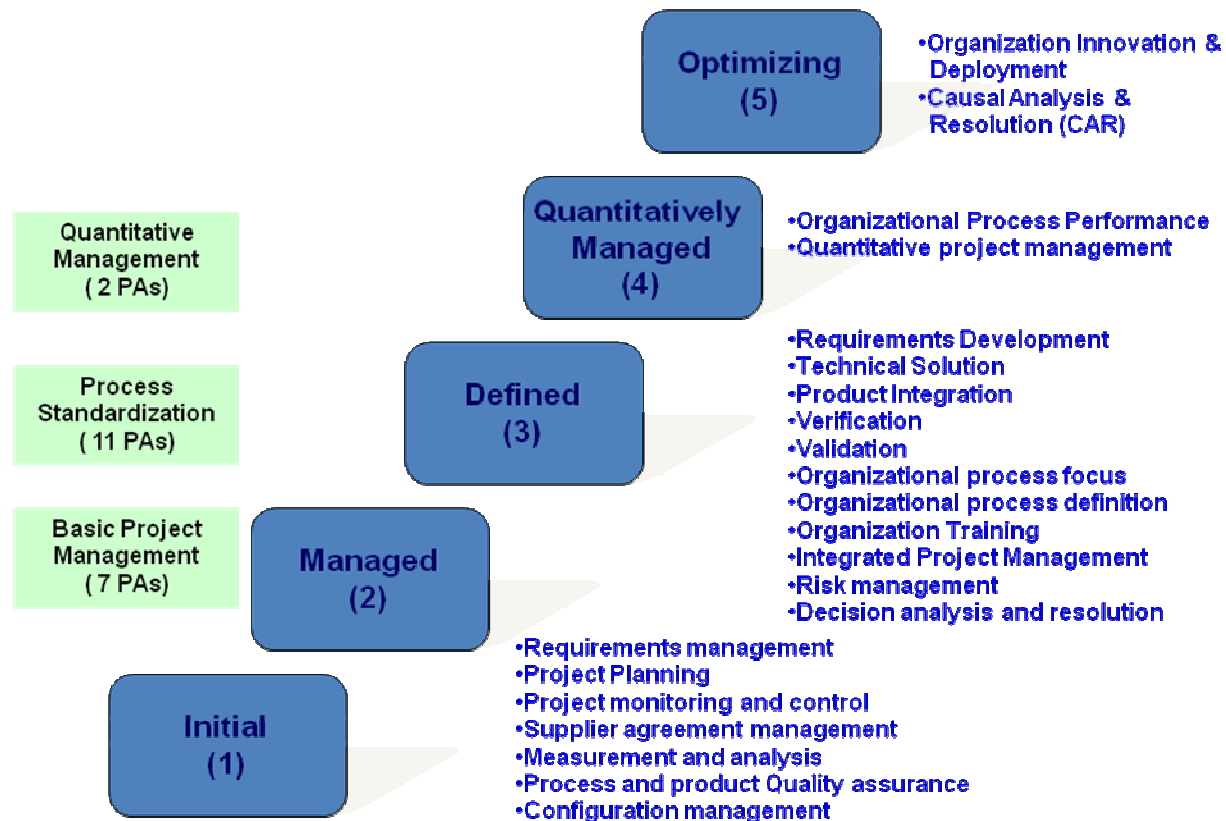
- The CMMI is the successor of the CMM
- The CMM was developed from 1987 until 1997 by SEI which captured organizational best practices for software development.
- It was first decided to apply the underlying principles of the CMM to software development practices of a single developer.
- The result of this effort was the Personal Software Process (PSP), designed to be CMM level 5 process for individual software developers.
- Then SEI went in for the development of developed the Team Software Process (TSP).

CMMI Model Representation:

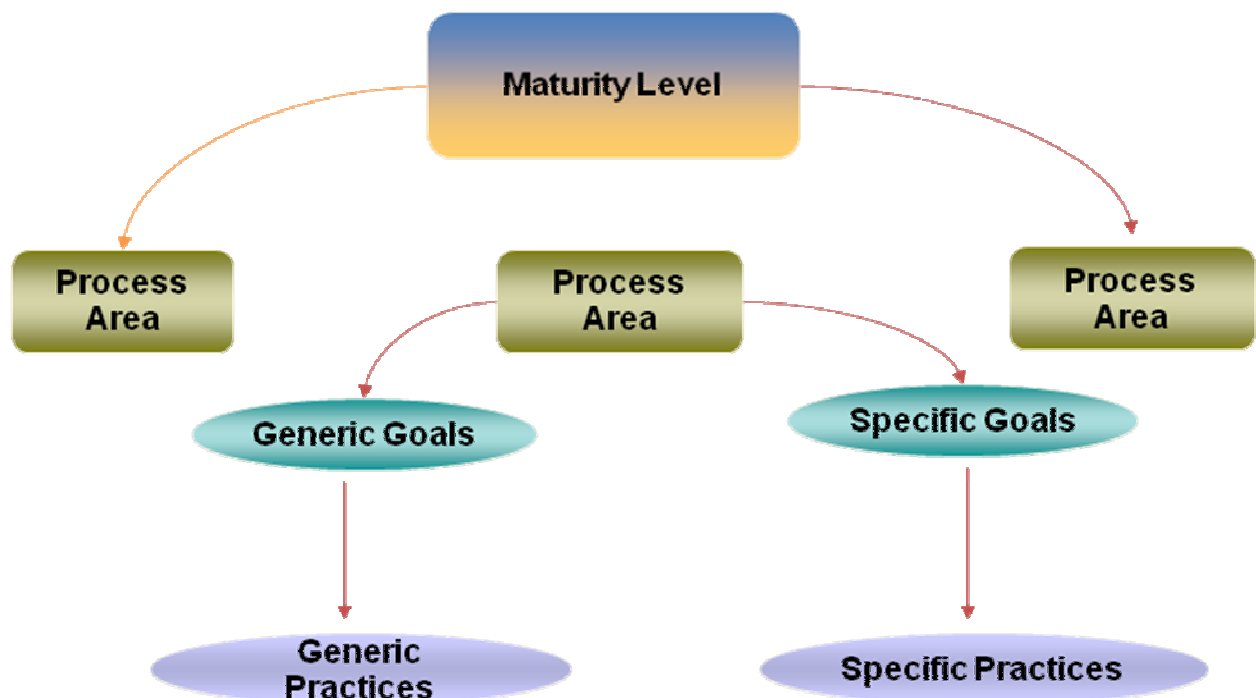


CMMI V 1.3 (Capability Maturity Model Integration)

Process Areas:

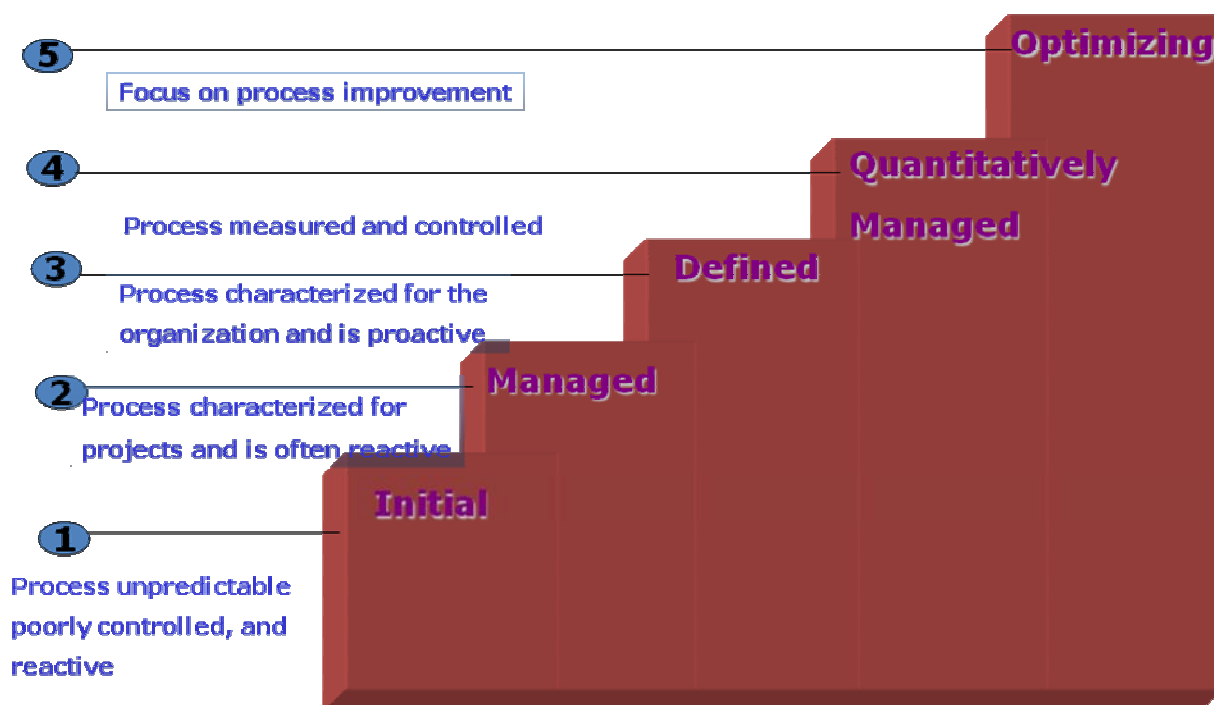


CMMI Staged Representation: Structure



CMMI V 1.3 (Capability Maturity Model Integration)

CMMI Maturity Levels:



Maturity Level 1: “Initial”

- Processes are performed but often in an ad hoc and occasionally chaotic manner.
- Performance is dependent on the competence and heroics of the people.
- High quality and exceptional performance is possible, as long as the best people can be assigned to the task.

CMMI V 1.3 (Capability Maturity Model Integration)

- Performance is difficult to predict.

Maturity Level 2: “Managed”

- Project management is more disciplined.
- Organizational policies are established and followed.
- Project plans and process descriptions are documented and followed.
- Resources are adequate.
- Responsibility and authority are assigned over the life cycle.

Maturity Level 3: “Defined”

- Clarify Customer Requirement
- Ensure products meet requirement
- Analyze Decisions Systematically
- Follow integrated ,defined processes
- Identify and control potential Problems
- Establish Organizational responsibility for Process improvement
- Define Organizational Best Practices
- Develop Skills and Knowledge

CMMI V 1.3 (Capability Maturity Model Integration)

Maturity Level 4: “Quantitatively managed”

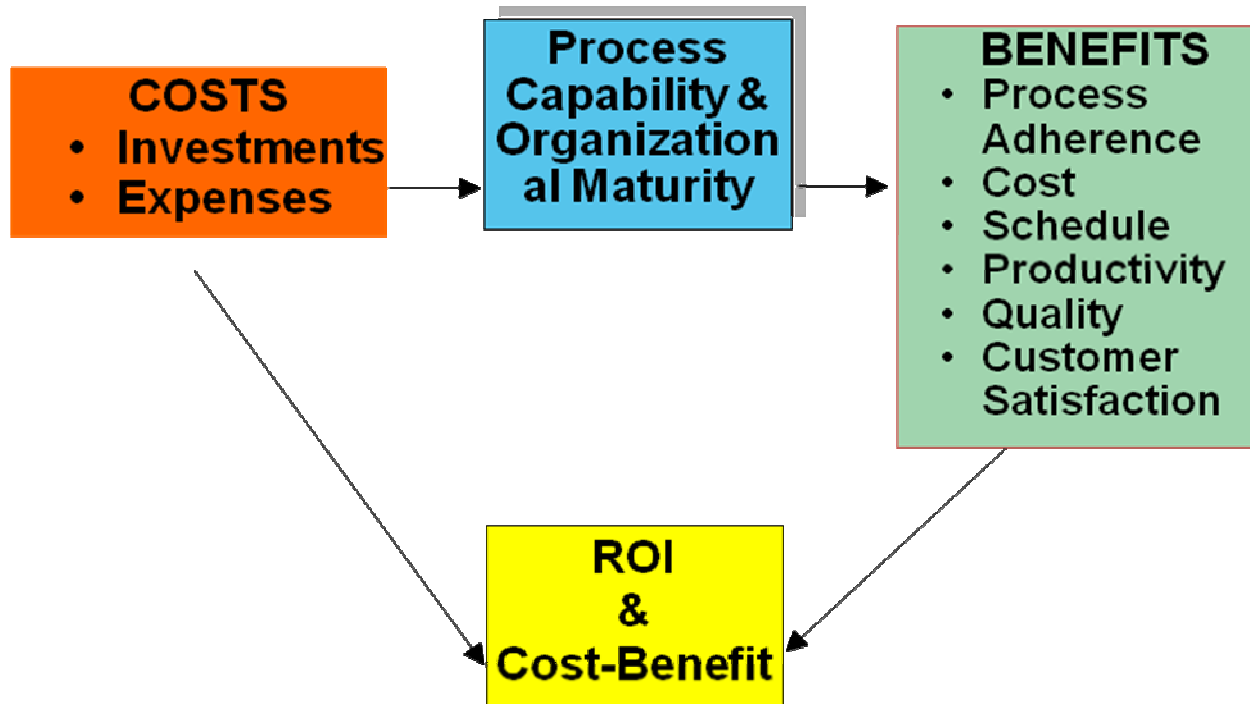
- Statistical and other quantitative methods are used, at the organizational and project levels, to ~
- Understand past process performance, past product quality, and past service quality
- Predict future process performance, future product quality, and future service quality

Maturity Level 5: “Optimizing”

- Both the project’s defined processes and the organization’s set of standard processes are target of the improvement activities.
- Quantitative process improvement objectives for the organization are established and continually revised to reflect changing business objectives.
- Incremental and innovative improvements that measurably increase process capabilities are identified, evaluated, and deployed.

CMMI V 1.3 (Capability Maturity Model Integration)

Cost Impacts & Benefits of CMMI:



Benefits of CMMI:

The CMMI Product Suite provides the latest best practices for product and service development and maintenance. CMMI is designed for other disciplines as well, thereby supporting enterprise-wide process improvement.

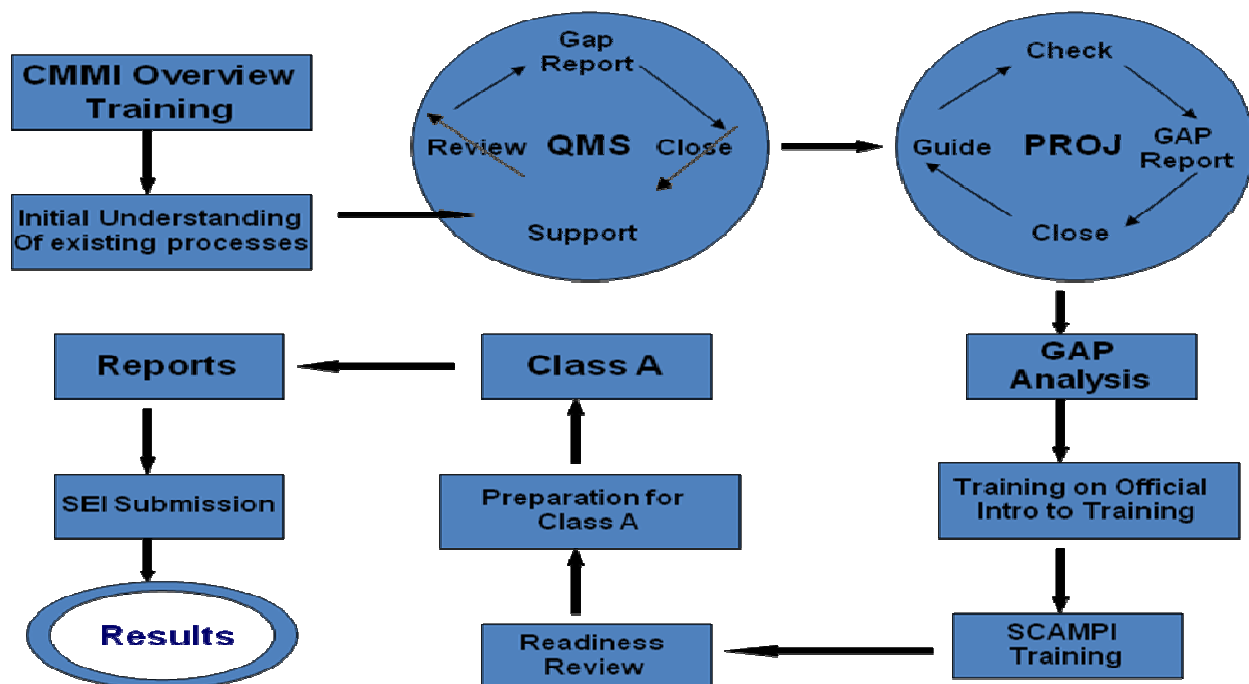
CMMI best practices enable organizations to do the following:

- More explicitly link management and engineering activities to their business objectives.
- incorporate lessons learned from additional areas of best practice (e.g., measurement, risk management, and supplier management)
- address additional organizational functions critical to their products and services.

CMMI V 1.3 (Capability Maturity Model Integration)

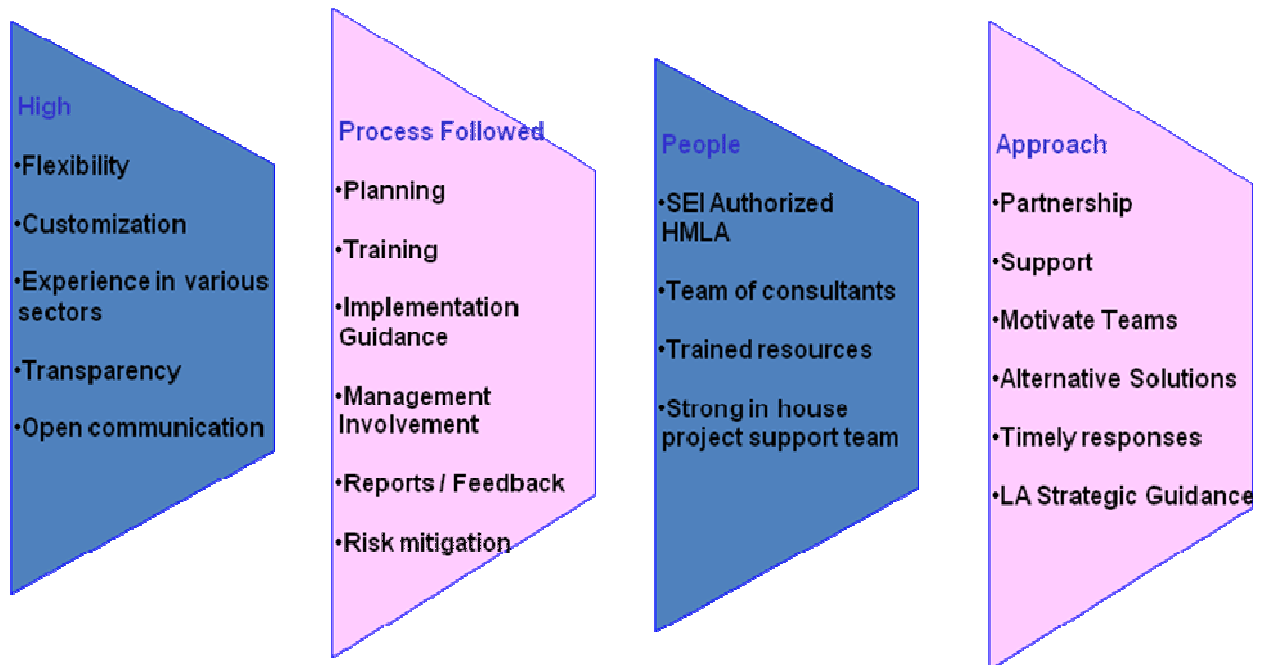
- implement more robust high-maturity practices.
- provides more detailed coverage of the product life cycle .
- incorporate many lessons that were learned during the development, maintenance.
- address the needs of organizations at higher maturity levels.
- The combination of product engineering and proved practices for managing processes results in a well-integrated project
- management and improved processes-and the end products.

Typical Phases of CMMI activities



CMMI V 1.3 (Capability Maturity Model Integration)

TUV India Service Differentiators



How TUV India Can help you?

- SEI official Introduction Training
- CMMI Overview Training
- SCAMPI Appraisal Training
- Process implementation guidance (Optional)
- SCAMPI Class A, Class B, Class C Appraisal
- Metrics Training (Optional)
- Documentation Review/ Implementation Review (Optional)