

Capability Maturity Model Integration (CMMI)

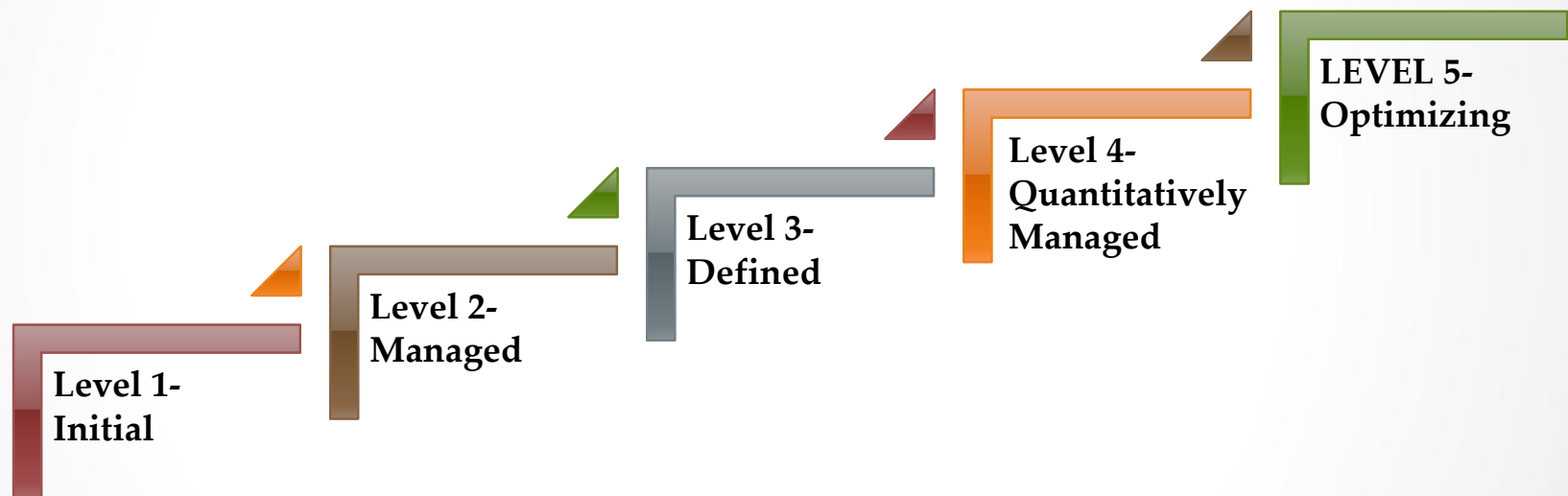
What is CMMI?

- CMMI (Capability Maturity Model Integration) helps in improvement in the quality of products and increase efficiency in development in hardware and software.
- The aim of the CMMI effort is to sustain process and product improvement
- It is used to bring down redundancy and carry off inconsistency
- It is experienced by those using many standalone models
- It incorporate disciplines such as systems engineering and software engineering.

How can CMMI help?

- CMMI helps by providing a way which helps hardware and software development from product origin through deployment and care.
- CMMI focus on better processes in an organization.
- CMMI models provide direction for development or amending processes that confirm to the business goals of an organization

CMMI Staged Representation



Behaviors at Level 1

LEVEL NO	MATURITY LEVEL	PROCESS CHARACTERISTICS	BEHAVIOURS
LEVEL 1	Initial	Process is irregular, inadequately controlled and reactive	Focus on “fire fighting”; Strength is low- Defeat is high

Behaviors at Level 2

LEVEL NO	MATURITY LEVEL	PROCESS CHARACTERISTICS	BEHAVIORS
LEVEL 2	Managed	Process is qualified for projects and is frequently reactive	Over trust on experience of good people-when they go, the process goes.

Behaviors at Level 3

LEVEL NO	MATURITY LEVEL	PROCESS CHARACTERISTICS	BEHAVIORS
LEVEL 3	Defined	Process is identified for the organization that is proactive	Desire on outlined process. People interpret, affirm and follow the process

Behaviors at Level 4

LEVEL NO	MATURITY LEVEL	PROCESS CHARACTERISTICS	BEHAVIORS
LEVEL 4	Quantitatively managed	Process is deliberated and controlled	Greater sense of teamwork and mutuality

Behaviors at Level 5

LEVEL NO	MATURITY LEVEL	PROCESS CHARACTERISTICS	BEHAVIORS
LEVEL 5	Optimizing	Focus is on uninterrupted quantitative betterment	Focus on “fire prevention”; improvement countered and trusted, and impacts measured.

Appraisals

- The standard appraisal method is SCAMPI (Standard CMMI Appraisal method for Process Improvement).
- Appraisal is divided into three classes-
 1. SCAMPI A- Maturity or Capability Level Rating
 2. SCAMPI B- User acceptance or test appraisal
 3. SCAMPI C- Data collection tool and gap analysis

Benefits of CMMI?

- Customer satisfaction
- Efficiency
- Cost forecasting
- Risk management
- Supplier management
- Schedule
- Productivity
- Return on investment