C.M.M

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WHAT IS CMM?

- CMM: Capability Maturity Model

- Developed by the Software Engineering Institute of the Carnegie Mellon University

- Framework that describes the key elements of an effective software process.

PROCESS MATURITY CONCEPTS

- Software Process

- Software Process Capability

- Software Process Performance
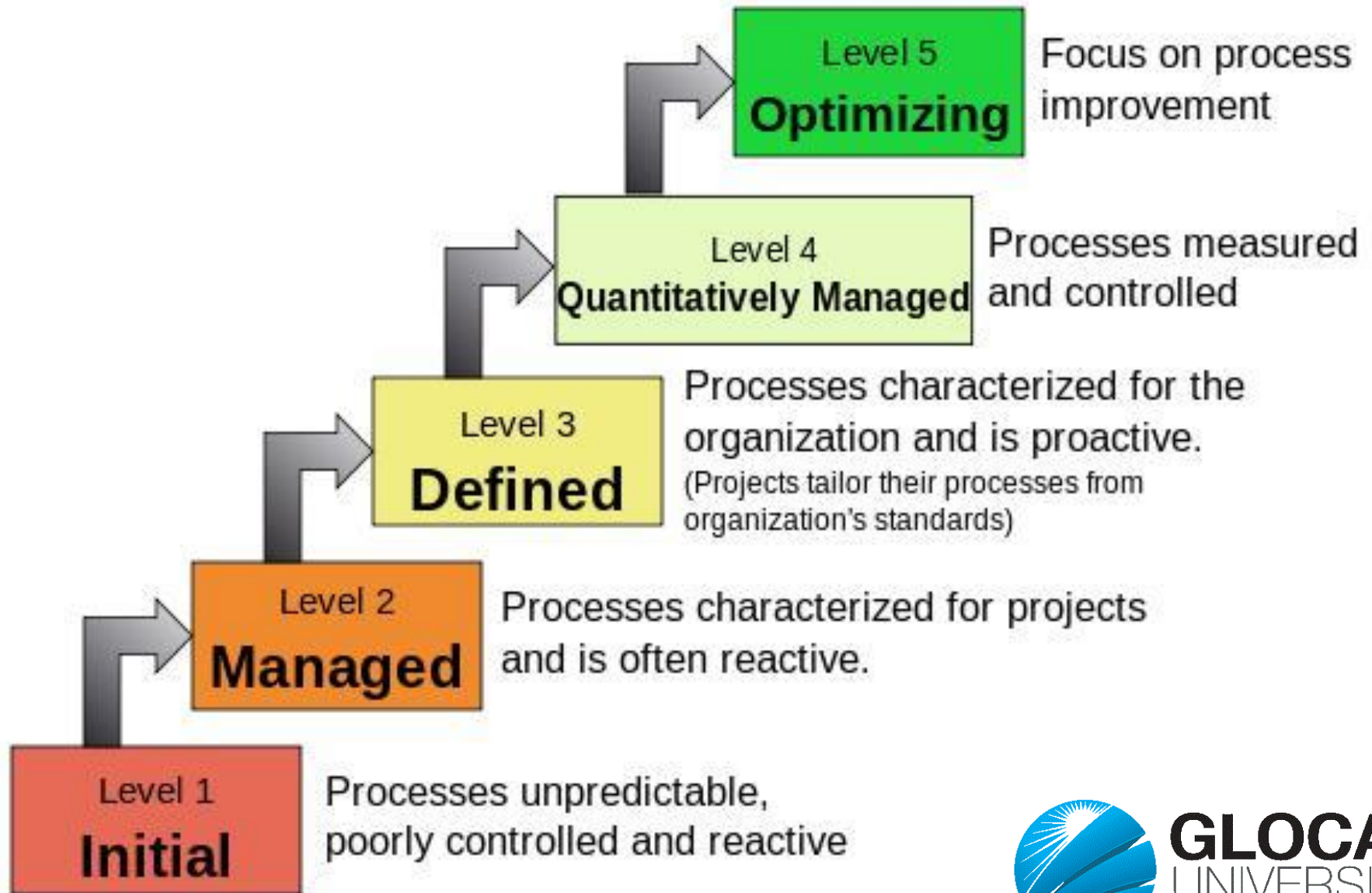
- Software Process Maturity

WHAT ARE THE CMM LEVELS?

Maturity level indicates level of process capability:

- Initial

- Managed

- Defined

- Quantitatively Managed

- Optimizing

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Characteristics of the Maturity levels

Level 5 Optimizing — Focus on process improvement

Level 4 Quantitatively Managed — Processes measured and controlled

Level 3 Defined — Processes characterized for the organization and is proactive. (Projects tailor their processes from organization's standards)

Level 2 Managed — Processes characterized for projects and is often reactive.

Level 1 Initial — Processes unpredictable, poorly controlled and reactive

INTERNAL STRUCTURE TO MATURITY LEVELS

LEVEL 2 KPAS

- Requirements Management

- Software Project Planning

- Software Project Tracking and Oversight

- Software Subcontract Management

- Software Quality Assurance

- Software Configuration Management

LEVEL 3 KPAS

- Training Program

- Integrated Software Management

- Software Product Engineering

- Intergroup Coordination

- Peer Reviews

LEVEL 4 KPAS

- Quantitative Process Management

- Software Quality Management

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LEVEL 5 KPAS

- Process Change Management

- Technology Change Management
  - identify and transfer beneficial new technologies
    - tools
    - methods
    - processes

- Defect Prevention

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BENEFITS OF ADOPTING CMM

- **Consistency**

- **Cost Saving**

- **Self Improvement**

- **Market demand**

- **Performance demand**

- **Process improvement**

PROBLEMS WITH CMM

- It is a goal, not a method

- Being used just as stamp of approval

- Doesn't say anything about software!

- Doesn't help in a crisis

- Only for repetitive tasks

THANK UOU...!

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