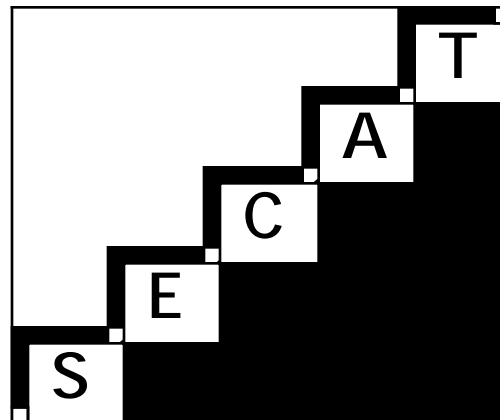
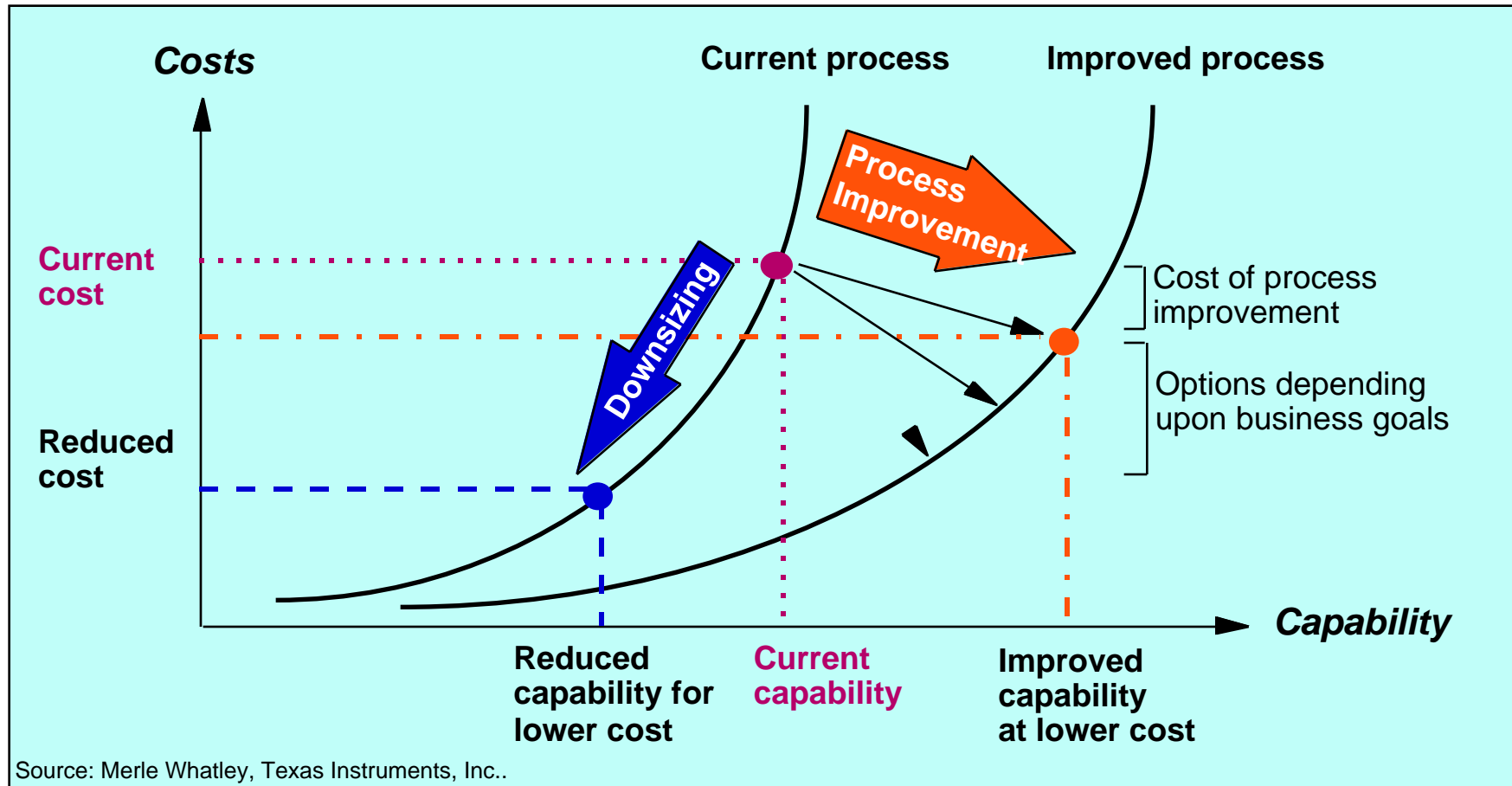


Overview of the Use and Benefits of the Systems Engineering Capability Maturity Model (SE-CMM)



What is the Problem the SE-CMM Solves?



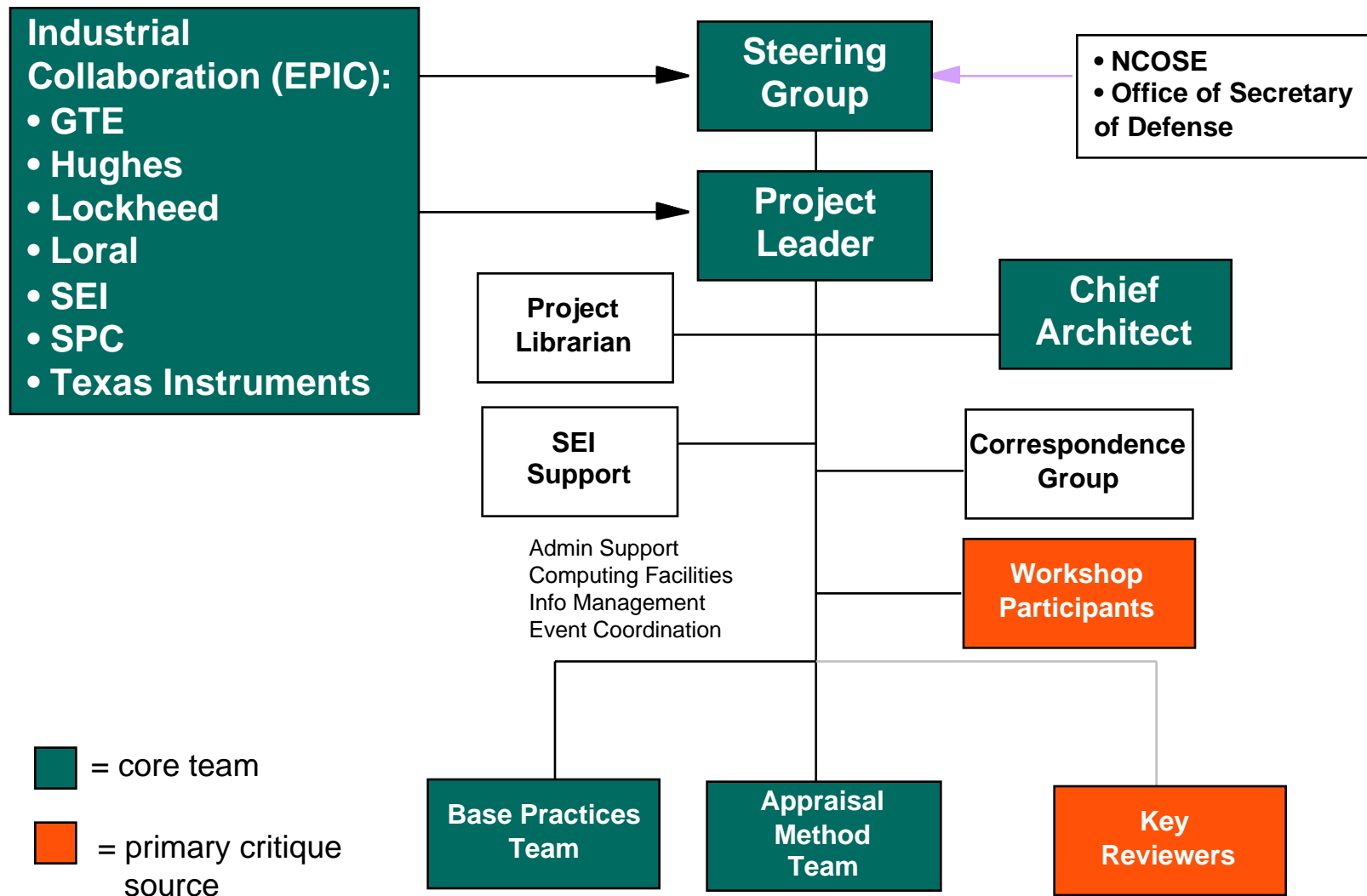
CMMs are a tool for improving the ability to transition to an improved process effectively

Primary Benefits of Using Any Capability Maturity Model (CMM)



- Include definition and description of the applicable domain (e.g. systems engineering, software, etc.)
- Provide a logical sequence for improvement based on 10+ years of experience
- Lead to better processes & better products
- Provide the data necessary for effective management of process improvement efforts
- Strong return on investment shown for CMMs where historical data exists

Who Developed the SE-CMM?



What is the Systems Engineering Capability Maturity ModelSM (SE-CMMSM)?

- 1** ■ Describes the essential systems engineering and management tasks that any organization must perform
- 2** ■ Road map for systems engineering & management process improvement
- 3** ■ Systems engineering and management process measurement tool

CMM and Capability Maturity Model are service marks of Carnegie Mellon University

How Can the SE-CMM be Used?

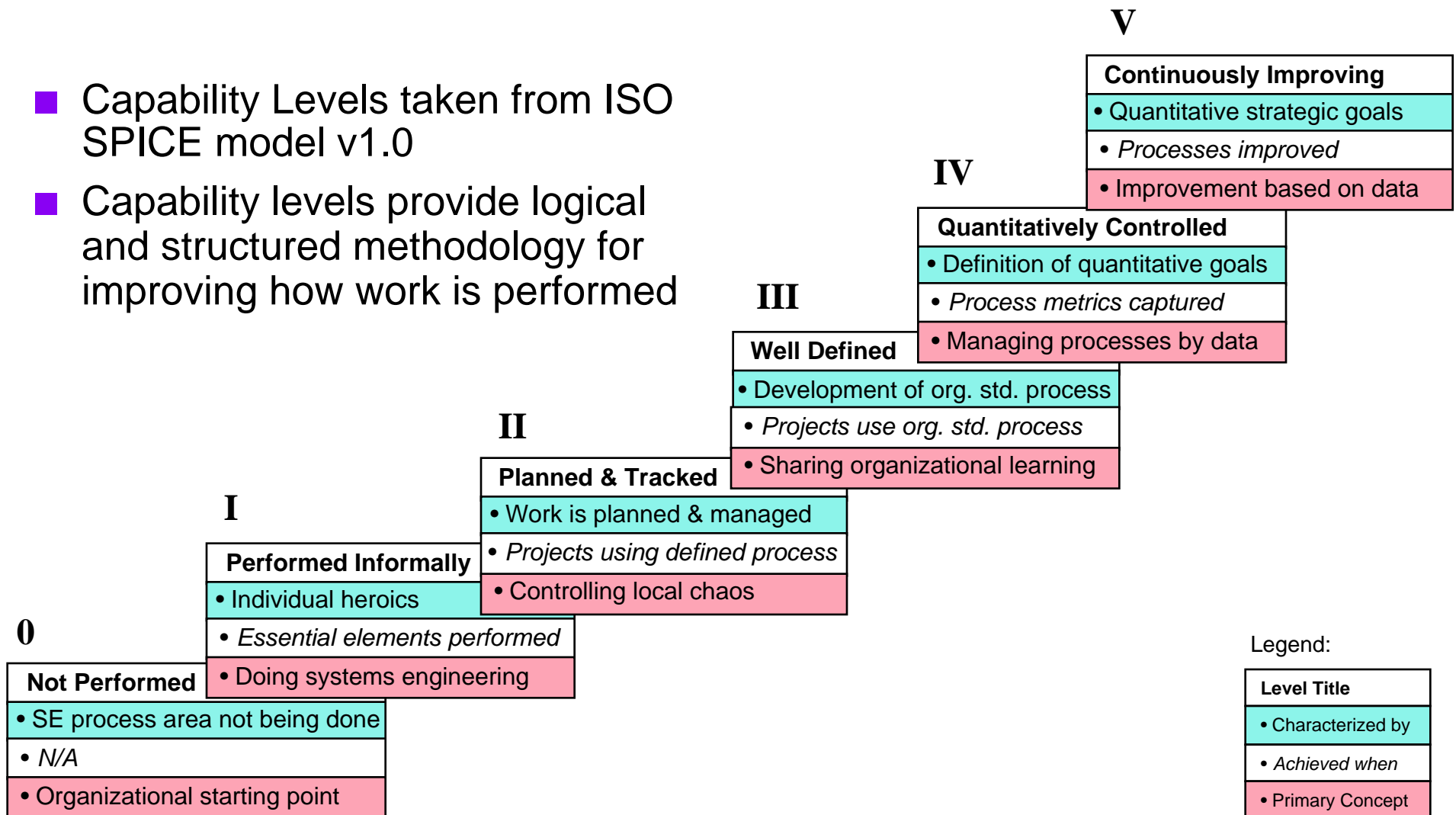
- 1** ■ **Guidance**
 - develop documented or undocumented processes
- 2** ■ **Measurement**
 - benchmark
 - baseline an organization
 - measure improvement
- 3** ■ **Prioritization**
 - prioritize initiatives using assessment data and/or staging and capability levels
- 4** ■ **Risk Reduction**
 - criteria in source selection

Why Would You Want to Perform an SE-CMM Assessment?

- Measure how well system engineering is being done in the organization
- Pinpoint problems in the organization
- Prioritize improvements that need to be made
- Measure improvement/change over a period of time
- Demonstrate strengths in an acquisition environment / evaluate a contractor
- Benchmark against industry (future)
- Boost employee morale (if action is taken)

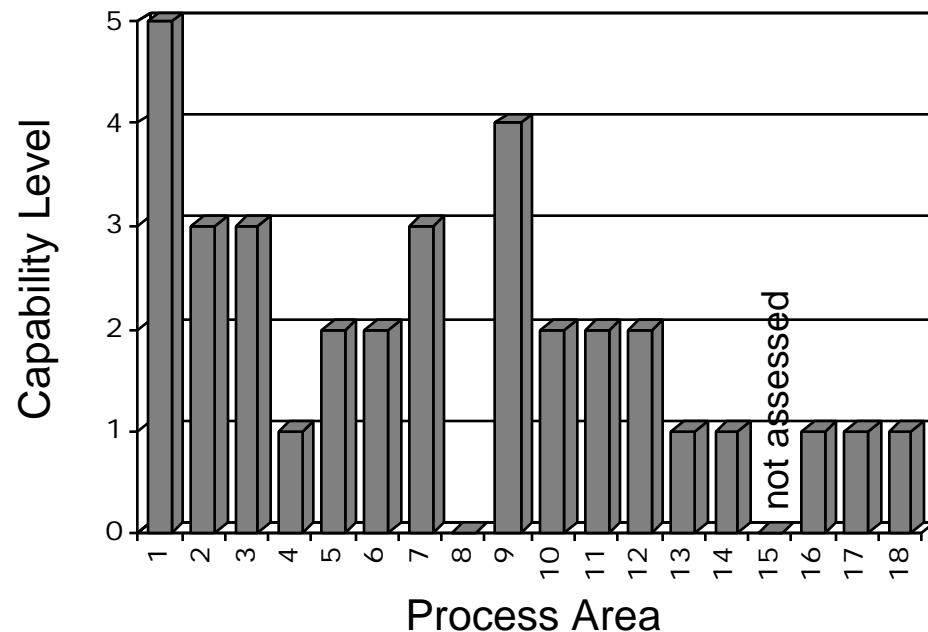
Process Improvement Roadmap

- Capability Levels taken from ISO SPICE model v1.0
- Capability levels provide logical and structured methodology for improving how work is performed



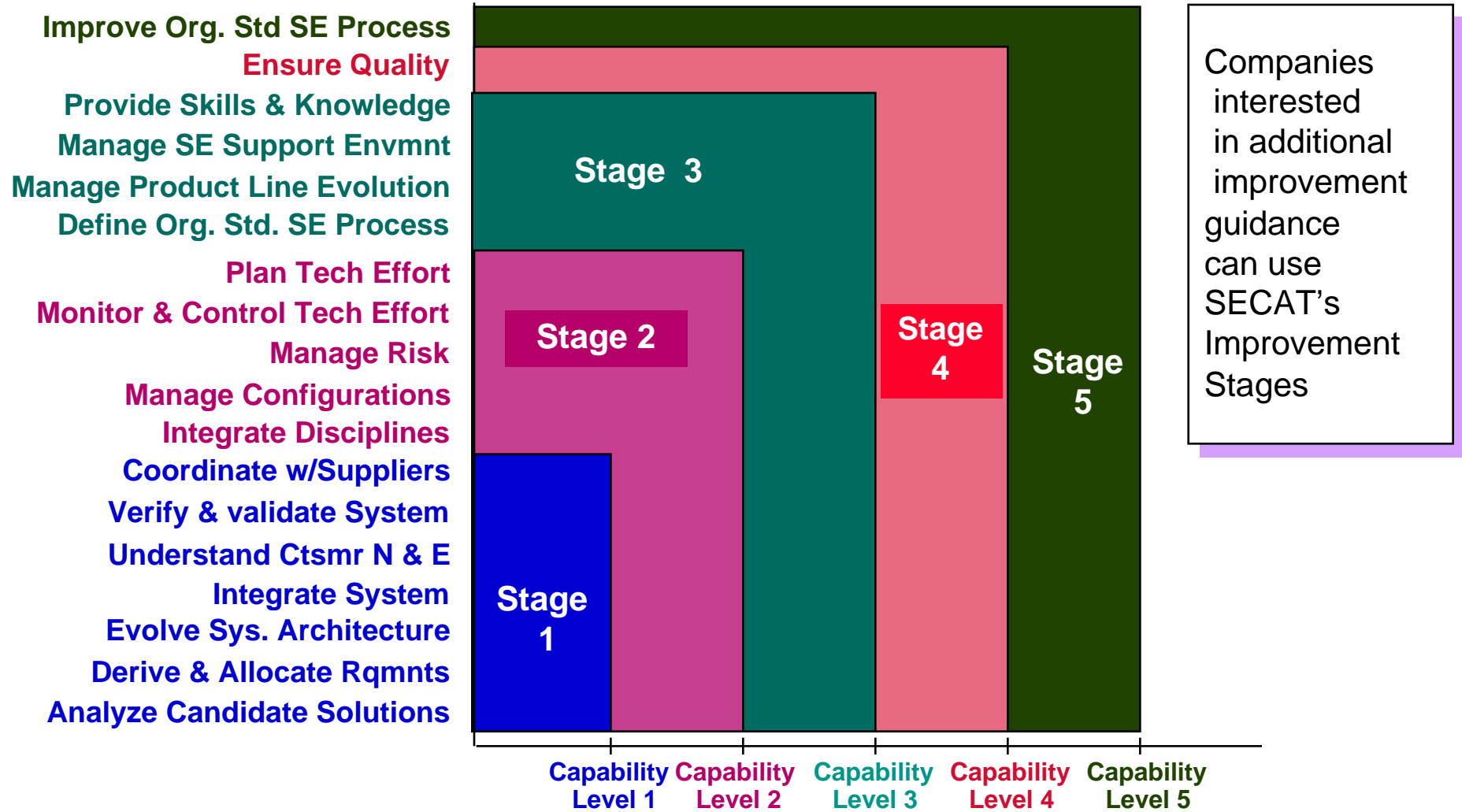
How the SE-CMM Scoring Method Works

- Score each process area that was assessed
 - some process areas may not be applicable
 - goals of assessment may affect process areas selected for assessment
- Score ranges from 0 to 5 for each process area
- Some process areas are more difficult to achieve
 - uniform goal in all process areas is unrealistic



Not a realistic profile- for discussion purposes only

Improvement Stages



Companies interested in additional improvement guidance can use SECAT's Improvement Stages

SECAT LLC

- Formed to help companies improve their product development processes using Capability Maturity Models as a primary tool
- SECAT LLC principles are authors of CMMs, including the Systems Engineering CMM and Integrated Product Development CMM
- Offering CMM training, assessments, and process improvement guidance
- SECAT LLC operates internationally, providing services for customers that include Motorola, Eastman Kodak, Defense Logistics Agency, Hughes, TRW, Northrop Grumman, Thomson CSF, and Computing Devices Canada

More Information or Obtaining SE-CMM Project Products

- For more on the benefits of the SE-CMM contact SECAT LLC at 714-449-0423, secat@secat.com, or <http://www.csz.com/secat>
- SE-CMM and associated work products are public domain documents & can be obtained via:
 - SECAT web page at <http://www.csz.com/secat>
 - EPIC ftp site at [ftp.software.org](ftp://ftp.software.org) in `secmm_public`
 - Research Access Inc at 800-685-6510
 - Defense Technical Information Center at 703-767-8019