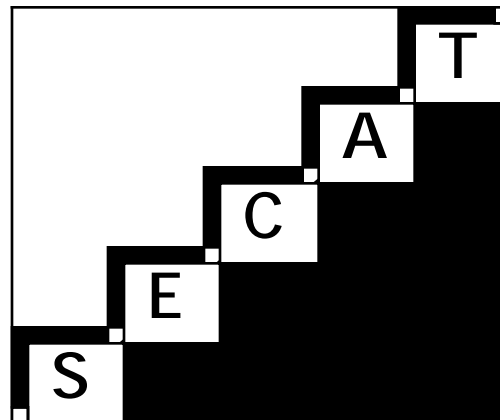
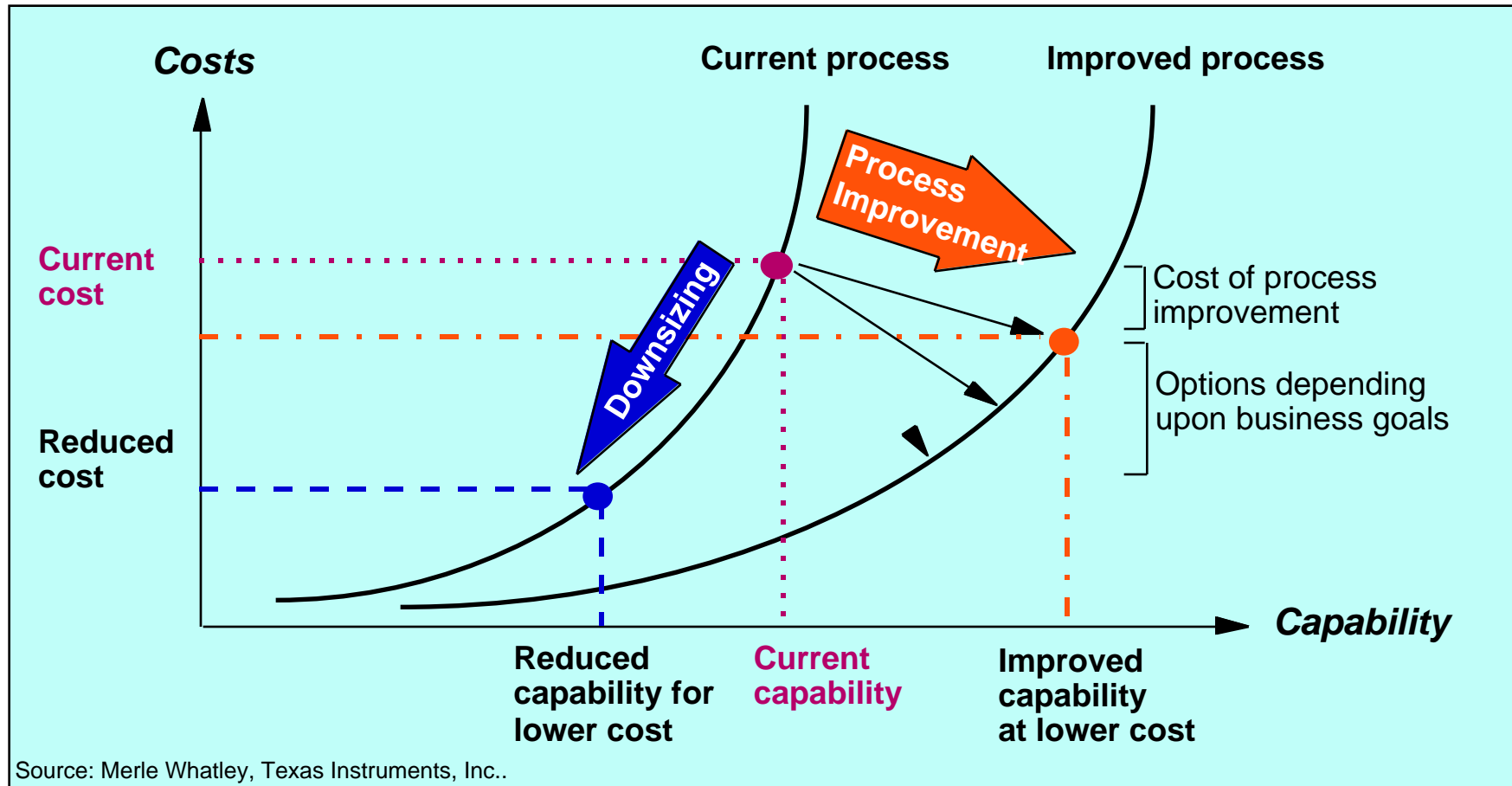


Overview of the Systems Security Engineering Capability Maturity Model (SSE-CMM)



What is the Problem the SSE-CMM Solves?



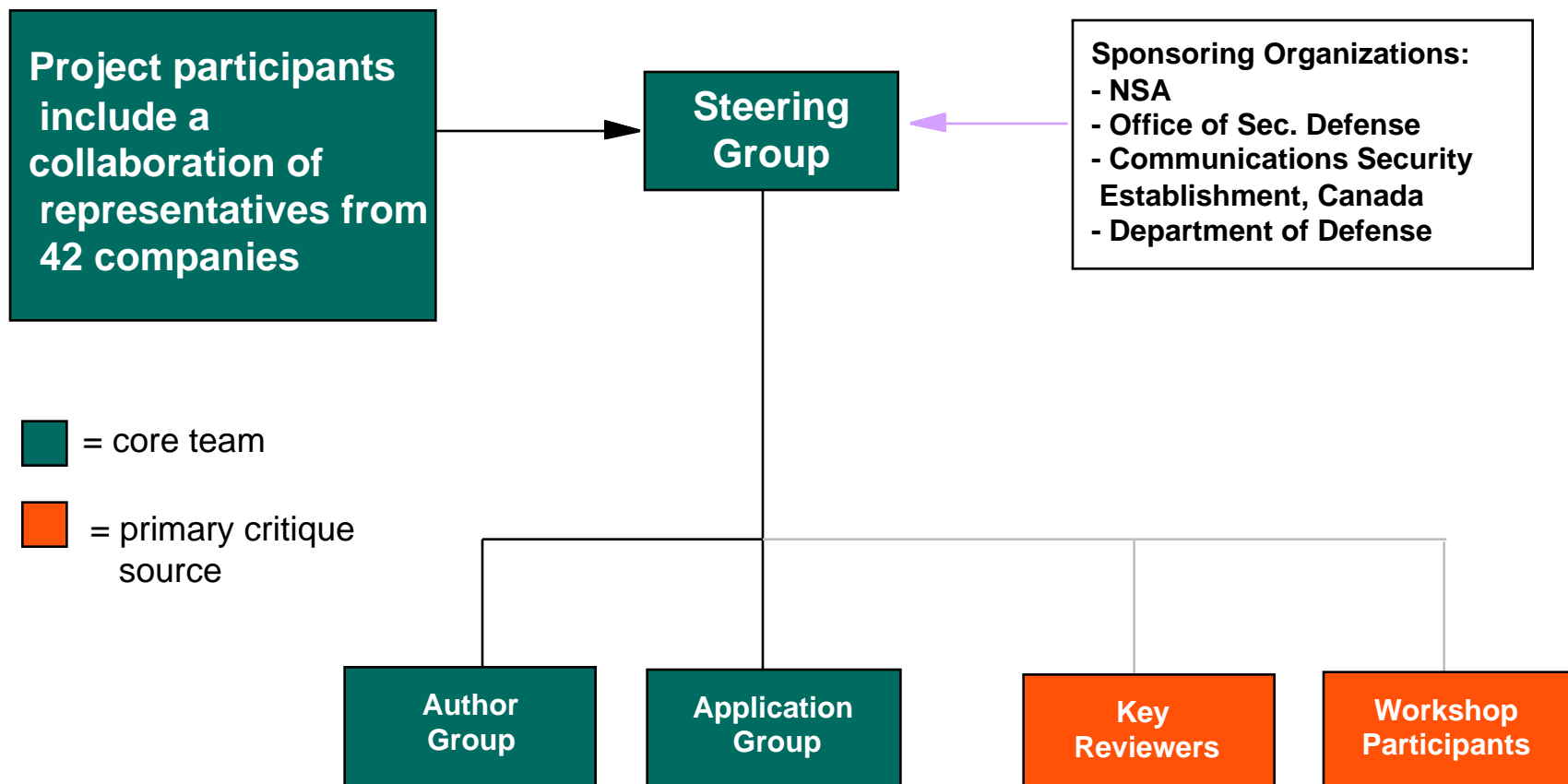
CMMs are a tool for improving the ability to transition to an improved process effectively

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 SSE-CMM?



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

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

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

Why Was the Model Developed?

1

■ Contractor Selection

- assist the selection of appropriately qualified providers of security engineering

2

■ Focus Improvement

- enable focused investment in security engineering tools, training, processes and management

3

■ Assurance

- provide data to justify confidence and trustworthiness in an engineering group's security practices

SSE-CMM Scope and Application

- Model focuses on practices necessary to safeguard information- from government classified data to financial transactions, company private material, etc.
- Should be integrated with the systems engineering effort, but requires unique talents, tools and process
- Performed throughout the entire product development, manufacture and support lifecycle

SSE-CMM Based on the SE-CMM

Engineering PAs

- Administer security controls
- Assess operational security risk
- Build assurance argument
- Coordinate security
- Determine security vulnerabilities
- Monitor system security posture
- Provide security input
- Specify security needs
- Verify & validate security

Unique to SSE

Project PAs

- Ensure quality
- Manage configurations
- Manage program risk
- Monitor & control technical effort
- Plan technical effort

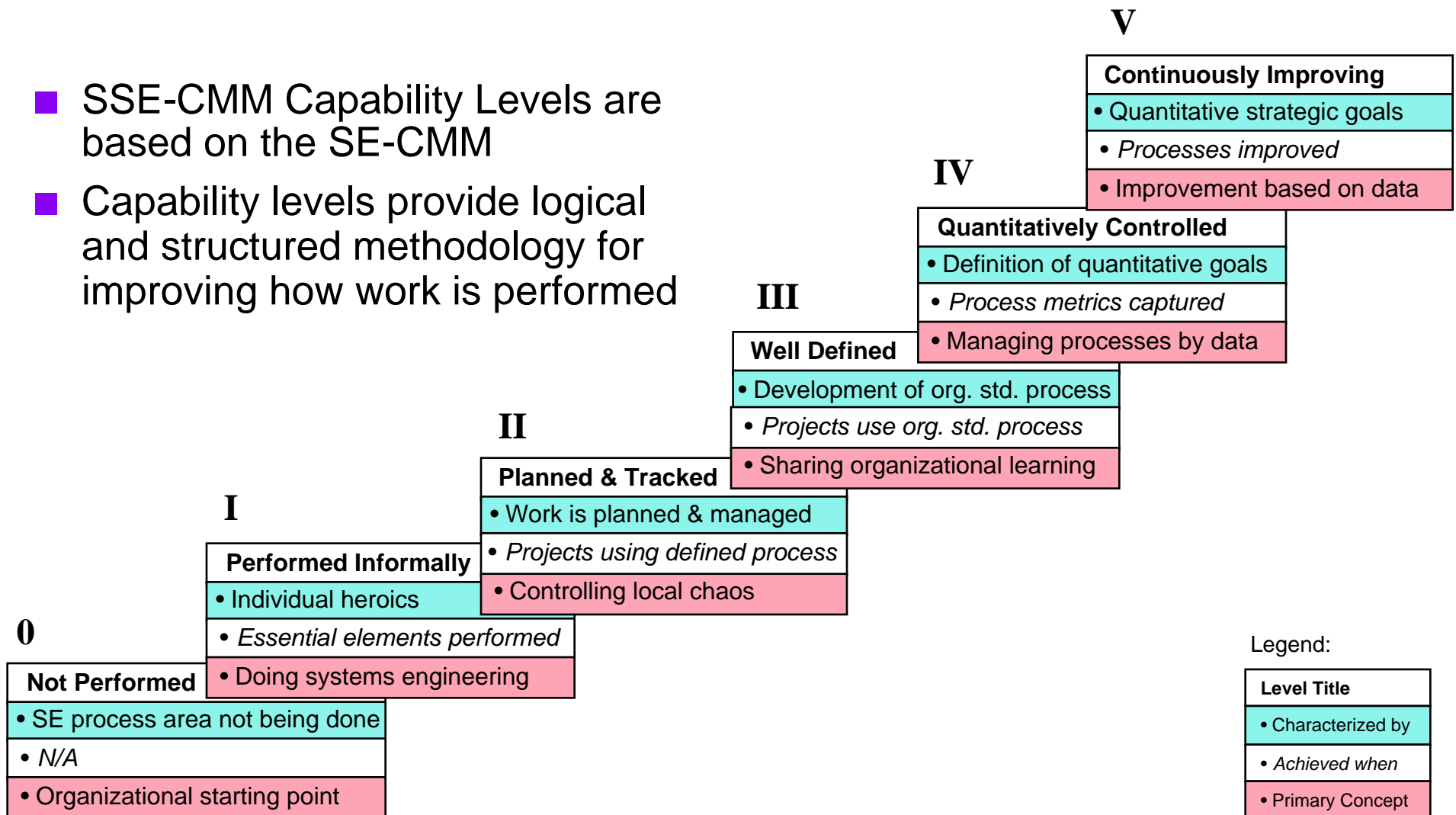
Based on SE-CMM adapted for SSE

Organizational PAs

- Coordinate with suppliers
- Define organization's security engineering process
- Improve organization's security engineering process
- Manage security engineering support environment
- Provide ongoing skills and knowledge

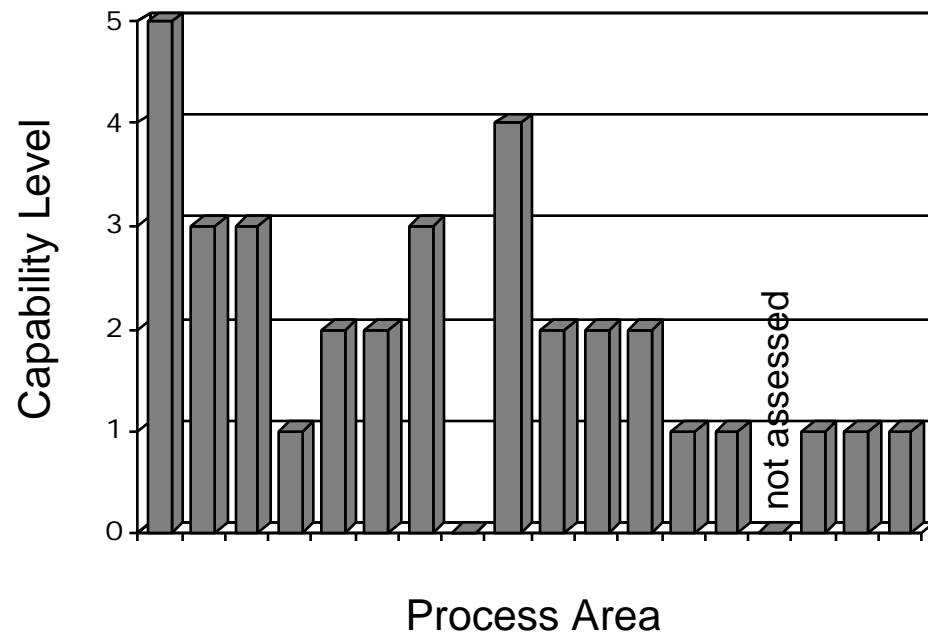
Process Improvement Roadmap

- SSE-CMM Capability Levels are based on the SE-CMM
- Capability levels provide logical and structured methodology for improving how work is performed



How the SSE-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

SECAT LLC

- Formed to help companies improve their product development processes using Capability Maturity Models as a primary tool
- SECAT LLC principals 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 SSE-CMM Project Products

- For more on the benefits of the SSE-CMM contact SECAT LLC at 714-449-0423, secat@secat.com, or <http://www.csz.com/secat>