Introductions & Capabilities
Perigean Technologies LLC

• WOSB, Founded 2007
• Fredericksburg, Virginia
• Mission: improve through knowledge
  – Knowledge:
    Capture, Retention & Transfer
    Analysis & Assessment
    Elicitation, Modeling & Engineering
    Management & Organization

• Personnel = 6
  – Knowledge engineers, human-computer interaction
    designers, computer programmers
Publications

- Applied Concept Mapping
  Capturing, Analyzing and Organizing Knowledge
  (CRC Press, 2011)

- Numerous articles
  - Knowledge capture
  - Cognitive sciences
Perigean Technologies LLC: Sample Client List

• Prime
  – Procter and Gamble
  – Westinghouse Electric Company
  – New York Power Authority
  – DARPA
  – Army Research Laboratory

• Sub
  – Veteran’s Health Administration
  – Central Intelligence Agency
  – Marine Corps
  – Electric Power Research Institute
Perigean Technologies LLC: Sample Domains

- Nonkinetic military operations
- Intelligence Analysis
- Healthcare
- Nuclear engineering
- Education and training
- Consumer goods
Perigean Technologies LLC: services & Training

Applied Concept Mapping
Capturing, Analyzing, and Organizing Knowledge

CMap
trainer

improve through knowledge
• Approach to Expertise Articulation
• Blends:
  – Applied Concept Mapping
    • Diagramming expert knowledge and reasoning
  – Naturalistic Inquiry
    • Particularly Critical Decision Method
    • Incident-based recall of expertise in action
• Non-proprietary methods
  – Efficient and effective execution
• Focus on MacroCogntion
  – Captures decision making, sensemaking, and team work from the perspective of the actors

Westinghouse Electric Company

Context: robust knowledge transfer program
- 1 ½ year period of elicitation
- 8 senior engineering experts
- 20 to 40+ hours expert participation
- Content populates custom KM portal
  - Cmap and custom navigation / text / 3-D modeling /
    Expert network / video and audio / avatars
- Transition to corporate education program
Sample Past Performance: Enabling Roles

• Illuminate decision and sensemaking strategies for software, learning, workspace and organizational design
  – E.g., Insurgent Method Training, Structured Brainstorming Tool, fusion center, Clinical Decision Support Guidelines
Applied Concept Mapping

- Origins in science education to support meaningful learning
- Procedures for knowledge elicitation and collaboration developed over 20 years of practice = Applied Concept Mapping
Applied Concept Mapping

Sample Past Performance: Prime Role

• DARPA – Rapid and Accurate Idea Transfer (Phase I SBIR)

• Army Research Laboratory - Cognitively Engineering a Virtual Collaboration Environment for Crisis Response