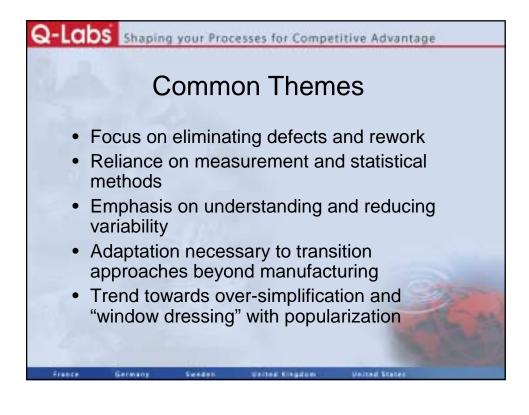
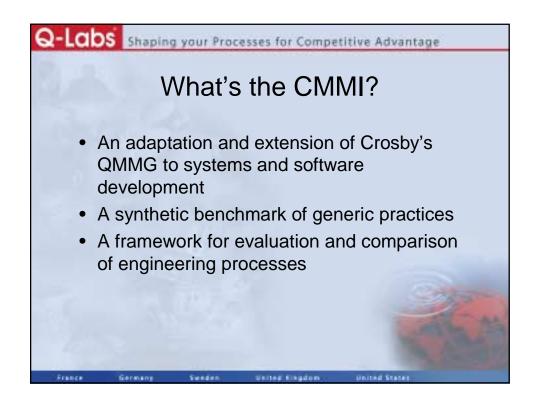
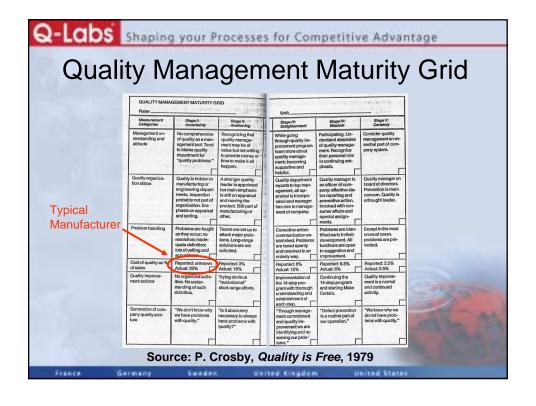
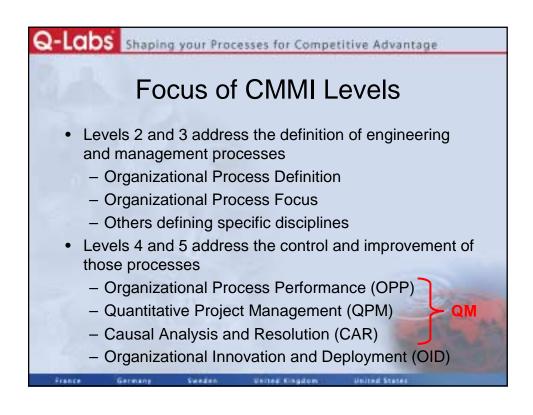


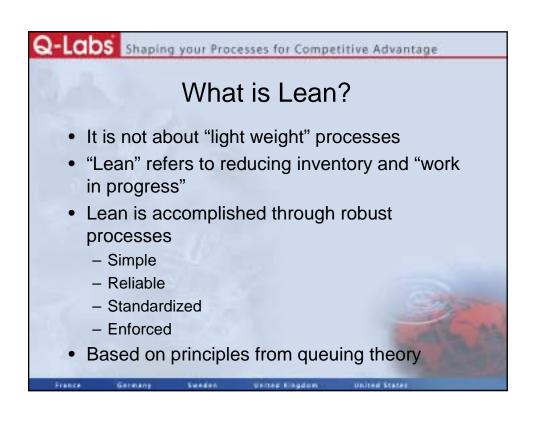
What are These Approaches? CMMI – a framework for managing processes and integrating activities across an organization Lean – a set of principles for efficient and effective processes Six Sigma – a problem-solving approach that addresses specific improvement needs through improvement projects

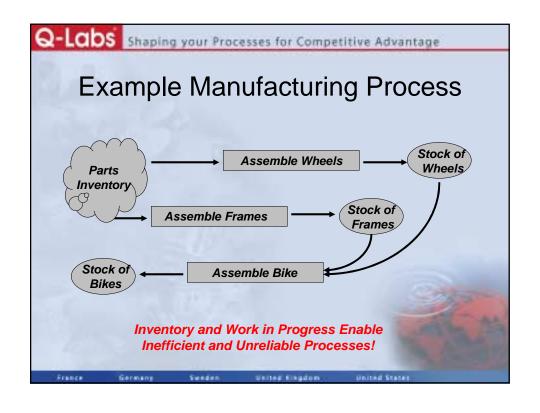


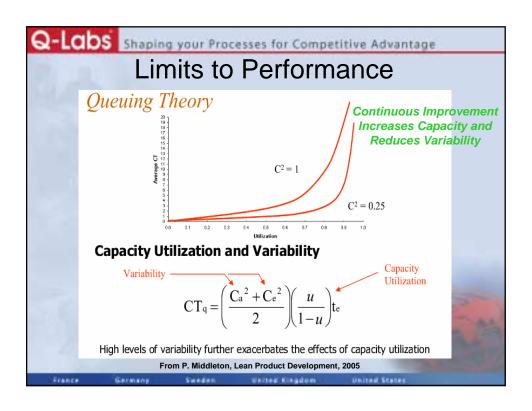


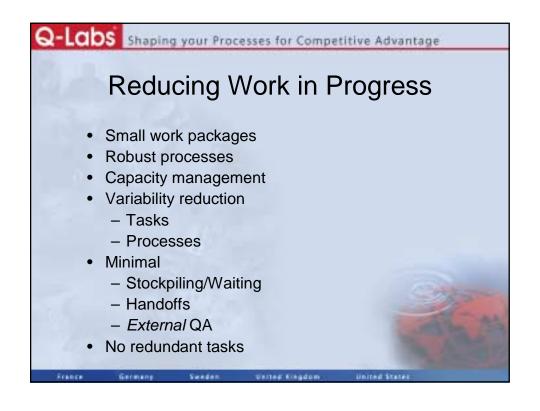


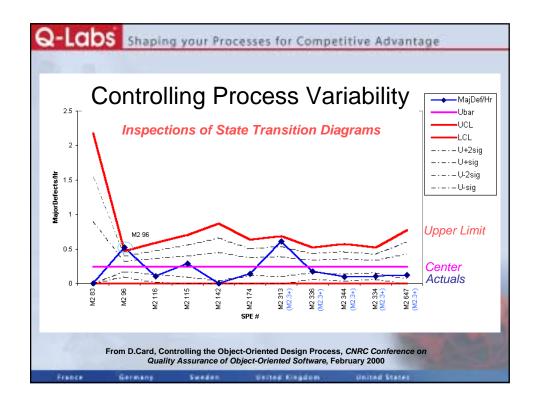




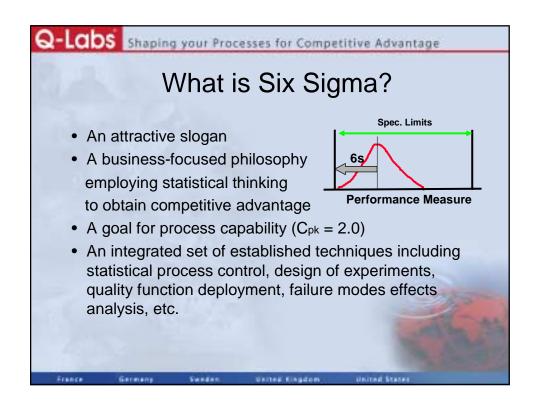






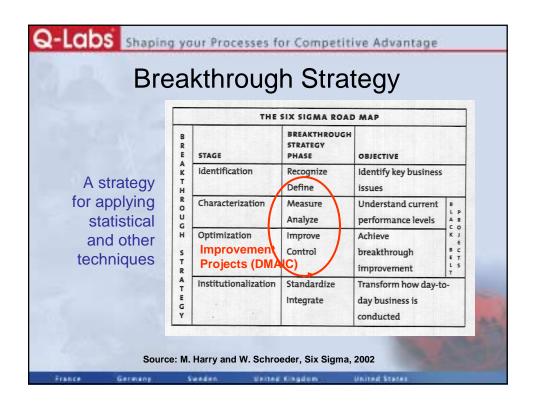


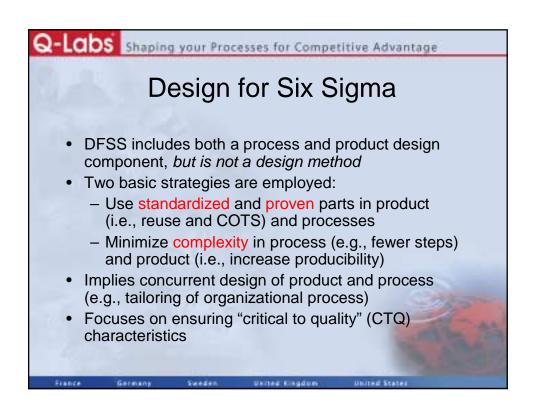
The Capacity Myth • Most engineering organizations behave as if their system/software development capacity is elastic - Capacity expands to accommodate the need - Projects are planned in isolation • Systems have limits to performance - Must understand the limits in order to optimize performance - Organizational performance must be managed

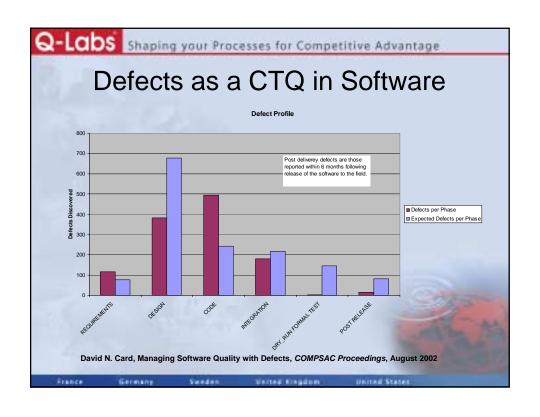


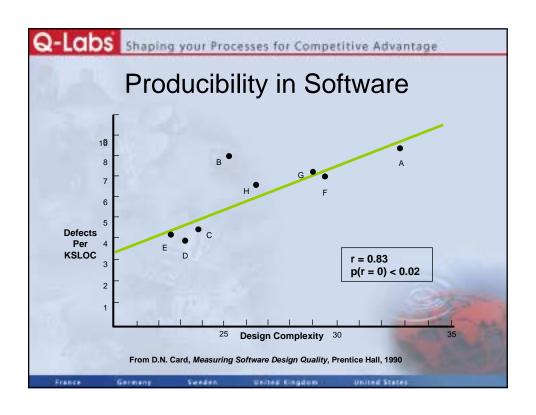


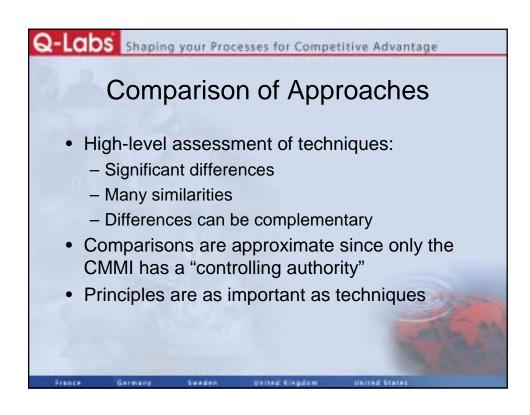


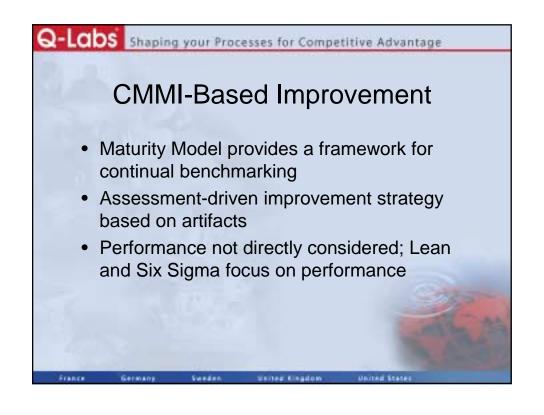


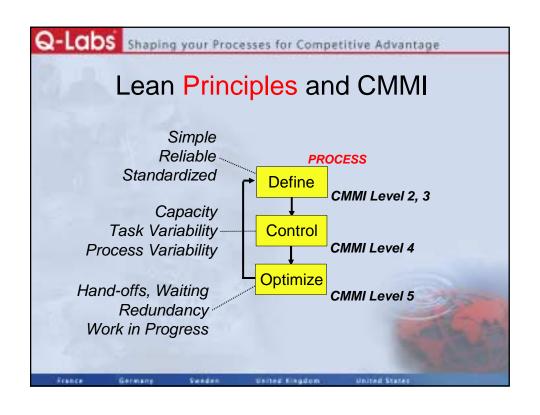


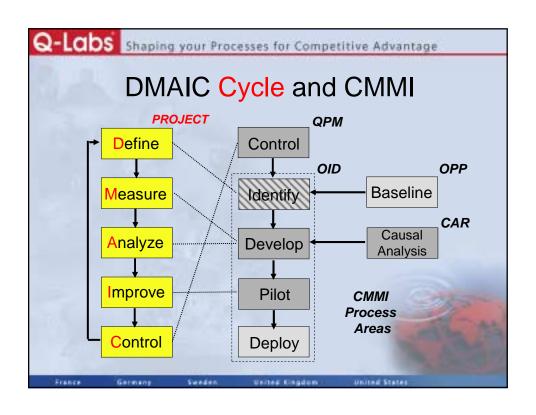




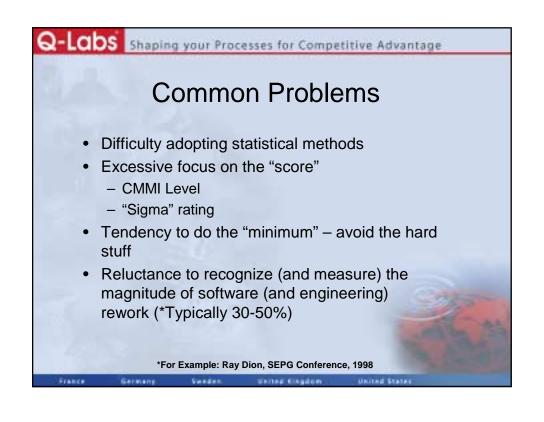








Significant Differences	
Six Sigma/Lean	СММ/СММІ
Assumes processes have been identified and defined	Focus on defining management and technical processes early
Doesn't distinguish organizational standard and project processes	Organizational process definition used to capture best practices
Emphasis on training to motivate and communicate skills	Emphasis on infrastructure to ensure key processes addressed
Reliance on statistical methods to manage performance	Statistical approach intended often not implemented
Focus on learning from internal experience and data	Additional mechanisms to leverage external technology
Prioritization of efforts based on business payoff	Link to strategic planning weak and often ignored
6s (only) certification of individual practitioners, not organizations	Certification of assessors and organizations, not practitioners



Summary CMMI translates many Six Sigma concepts into software and systems terminology Six Sigma is difficult for Level 1 organizations to implement, however Lean principles do apply Lean, Six Sigma, and CMMI-based process improvement are complementary Incorporating Lean principles and Six Sigma techniques helps organizations working towards Level 4 and 5 to deliver the best business results If you are not going ahead, then you are falling back!

