











Traditional View of Software Capabilities



- Predifined and common practices determine organization's software development capabilities
 - CMMI, SPICE, ISO 9001
- They do not account for business and firm-specific aspects very well

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Maturity Level	Key Process Areas		
5. Optimizing	Process Change Management Technology Change Management Defect prevention		
4. Managed	 Software Quality Management Quantitative Process Management 		
3. Defined	Peer reviews Intergroup coordination Software product engineering Integrated software management Training program Organization process definition Organization process focus		
2. Repeatable	Software configuration management Software quality assurance Software subcontract management Software project tracking and oversight Software project planning Requirements management		
1. Initial	Initial level, no KPAs, unpredictable and poorly controlled projects		









Impacts of to Compe	R&D			
	Traditional quality system	Agile (SCRUM)	Formal inspections	Reusable SW assets
Speed of development				
Software reliability				
Flexibility of development				
Cost of development				
Maintainability				
Predictability				
Total cost of ownership				
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