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Information Categories	Questions Addressed	Measurable Concepts	Measures
	Are the projects within this enterprise on track?	Milestone Completion	Milestone Progress Interim Progress Trend
Schedule & Progress	What is the degree of risk associated with each project? Which projects are most at risk?	Risk Status	Risk Likelihood and Impa
	What is the enterprise work backlog? What should be scheduled next?	Work Backlog	Open Defects Enhancements Needs
Resources & Cost	Does the enterprise budget and funding process support the financial needs of the projects?	Financial Adequacy	Obligation Rates Disbursement Rates Funding Availability
Resources & Cost, Cont'd	Within the enterprise, are there sufficient qualified resources (people)?	Personnel Effort	Effort Experience Level Staff Turnover Workforce Age Profiles Education/Training Profile
Product Size & Stability	How many systems are in development? How big are they? How many systems are being maintained? How big are they? What are the trends over time?	Physical Size and Stability Functional Size and Stability	Interfaces Interface Complexity Lines of Code Requirements
	Are requirements (needs) and architecture elements stable?	Functional Size and Stability	Requirements Volatility Architecture Elements Volat

	able – Enterprise Lev	CI - Z	
Information Categories	Questions Addressed	Measurable Concepts	Measures
Process Performance	Are known problems being resolved?	Functional Correctness	Defects Resolved
	Are the processes sufficient to operate efficiently in support of the acquisition activities	Process Effectiveness	Process Capability Process Adherence
	What are enterprise norms for completing acquisition activities (schedule, cost, productivity)?	Process Efficiency	Cycle Time Effort Productivity
	What are enterprise norms for completing development activities (schedule, cost, productivity)?	Process Efficiency	Cycle Time Effort Productivity
Technology Effectiveness	Does the enterprise have sufficient technology insertion plans and implementations?	Technology Adoption	Needs Met by Technolo Insertion Technology Refresh Ra
Customer Satisfaction	Are user needs / concerns being met? Is the enterprise delivering the products that are needed with sufficient functionality and performance for the mission?	Customer Feedback Customer Support	Satisfaction Ratings Requests for Suppor

	Table – Project Level ·	• 1	
Information Categories	Questions Addressed	Measurable Concepts	Measures
Schedule & Progress	Are acquisition activities and commitments completed as scheduled?	Milestone Completion Work Unit Progress	Milestone Dates Test Cases Attempted and Passed Requirements Documented and Reviewed Requirements Traced and Tested Reviews Completed Action Items Closed
	What is the degree of risk associated the project? What are the highest risks?	Risk Status	Risk Status
Schedule & Progress Resources & Cost	Has the acquisition office established realistic cost and schedule parameters for the system and for acquisition activities? Have the system proposals been evaluated for realistic cost and schedule projections?	Schedule Feasibility Cost Feasibility	Schedule Probability Cost Probability
a cost	Are the development schedule and cost realistic?	Schedule Feasibility Cost Feasibility	Schedule Probability Cost Probability
	Does the project have sufficient money to conduct acquisition activities on this project?	Financial Performance	Cost BCWS, BCWP, ACWP
Resources & Cost	Does the project have sufficient qualified resources to conduct acquisition activities on this project?	Personnel Effort	Effort Experience Level Staff Turnover
	Does the project have sufficient resources / infrastructure to conduct acquisition activities on this project?	Environmental and Support Resources	Quantity Needed and Availabl Time Available and Used

## Practical Software and Systems Measurement

## ICM Table – Project Level - 2

Information Categories	Questions Addressed	Measurable Concepts	Measures
Product	Are the user needs / top-level requirements and architectures stable? What is the impact of changes?	Functional Size and Stability	Needs Volatility Architecture Volatility
Size & Stability	How many external interfaces exist in a program? Are all external interfaces clearly identified? Are the interfaces stable? Are external interfaces developed and tested as planned?	Functional Size and Stability	External Interface Volatility
	Is the project delivering quality products that meet performance requirements?	Functional Correctness Dependability- Reliability	Needs Tested Successfully Defect Density Defect Escapes TPMs Components Accepted Mean Time to Failure
Product Quality	How many defects are found in the acquisition work products? How much rework is required?	Functional Correctness Process Effectiveness	Defects Rework Effort Rework Components
	How difficult is the product to maintain? How much will it cost? How many people are required for a certain level of support?	Maintainability Financial Performance Personnel Effort	Cost Staff Level
	Have you adequately budgeted, planned, and executed requirements for safety? What is the residual safety risk of the system?	Safety	Safety Risk Incidents Incurred Cost pe Incident
	Have you adequately budgeted, planned, and executed requirements for security?	Security	IT Security Cost Physical Security Cost
PSM 14			July 2008

Information Categories	Questions Addressed	Measurable Concepts	Measures
Process	How effective & efficient is the acquisition office in identifying defects in system products?	Process Effectiveness	Defect Escapes
Performance	How much time & effort is spent on various acquisition office activities?	Process Efficiency	Productivity
Technology Effectiveness	Does the project have sufficient technology insertion plans and implementations?	Technology Adoption	Needs Met by Technolo Insertion Technology Refresh Ra
Customer Satisfaction	Is the end user satisfied with the acquisition office activities and interactions? Is there sufficient user involvement? Are user action items recorded and completed?	Customer Feedback Customer Support	Satisfaction Ratings Action Items Opened a



