Measurement Information Specification Cost

Cost Organization 9 **Version 1.0**

Information Need Description	
Information Need	 Is project spending meeting cost objectives?Will all funding be used by the end of the fiscal year?
Information Category	Resources and Cost

Measurable Concept	
Measurable	Financial Performance
Concept	

Entities and Attributes	
Relevant Entities	Cost
Attributes	Dollars

Base Measure Specification	
Base Measures	 Budgeted cost (government) Actual cost (government) Budgeted cost (contractor) Actual cost (contractor) Budgeted equipment cost Actual equipment cost
Measurement Methods	 Based on engineering judgment and documented in project plan (should correlate to RSL list). Total of all government costs including development, all services (e.g. CM, QA), and management. Burdened rate is used. Based on engineering judgment and documented in task statement (purchase order). Total of all contractor costs including development, all services (e.g. CM, QA), and management. Based on engineering judgment and documented in task statement (purchase order). Reservices (e.g. CM, QA), and management. Based on engineering judgment and documented in project plan. Recorded from invoices - recorded as ODC.
Type of Method	 Subjective Objective Subjective Objective Subjective Subjective Objective
Scale	Positive real numbers
Type of Scale	Ratio
Unit of	Dollars
Measurement	

Derived Measure Specification	
Derived Measure	 Budget Variance (government) Budget Variance (contractor)

Measurement	1. ((actual cost (govt) - planned cost (govt)) / planned cost (govt)
Function	2. ((actual cost (contractor) - planned cost (contractor)) / planned cost (contractor)

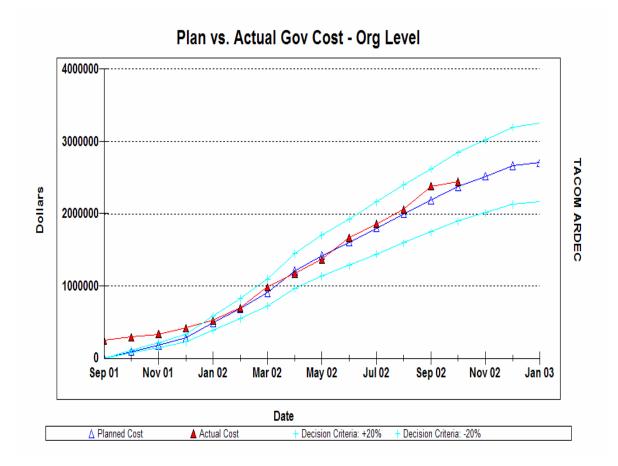
Indicator Specification		
Indicator Description and Sample	1. Government Cost	2. Contractor Cost
Analysis Model	project, compared to budgets.1. Trend Graph of cumulative pla government costs.	about the amount of money expended on a nned cost versus cumulative actual cost for all nned cost versus cumulative actual cost for all
Decision Criteria	More than 20% variance between plan and actual - adverse trend over 3 months.	
Indicator Interpretation	 The government effort data is shown in this chart. The projects that submitted government effort provided both planned and actual data. The contractor effort data is shown in this chart. The four projects that submitted contractor effort provided both planned and actual data. 	

Data Collection Procedure (For Each Base Measure)	
Frequency of Data Collection	 Per update to tasking, government labor program Monthly Per update to purchase order Monthly Per update to tasking Monthly
Responsible	Project Leader
Individual	
Phase or Activity	All
in which	
Collected	
Tools Used in Data Collection	 Approved project plan, government labor program (SAP) Government labor system (SAP) Signed purchase order Contractor's cost accounting system reported in contractor progress report Approved project plan Labor program (SAP)
Verification and Validation	 Verify against budget in SAP Project Measurement Analyst Representative may periodically audit against timecards. Verify against purchase order. Verify against contractor progress reports (project level only). Verify against purchase order. Verify against purchase order. Verify against invoice.

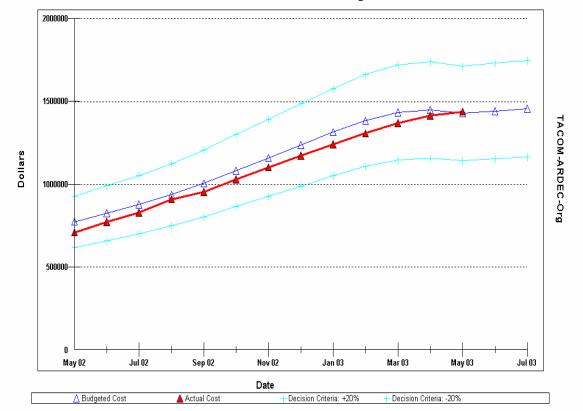
	Measurement template (Org-Measure-Contractor Cost and Effort Template(V 5-
Repository for	17-02).xls and Org-Measurement-Gov-Cost-Effort Ver2 Jun03.xls)(project level)
Collected Data	• PAL
	• PSM Insight (org. level)

	Data Analysis Procedure (For Each Indicator)	
Frequency of	Monthly	
Data Reporting		
Responsible	Project Measurement Analyst (project level) and	
Individual	Org. Measurement Analyst (org. level)	
Phase or Activity	All	
in which		
Analyzed		
Source of Data	Measurement template and PSM Insight	
for Analysis		
Tools Used in	Measurement template and PSM Insight	
Analysis		
Review, Report,	SMR project meetings (project level)	
or User	BAMs (org. level)	
UI USEI	Senior Management (org. level)	

Additional Information	
Additional	This measure does not address the amount of work completed for the costs incurred.
Analysis	
Guidance	
Implementation	Since software development is a labor-intensive activity, this data should track
Considerations	closely to effort data.



Plan vs. Actual Contractor Costs - Org Level



Cost, Org 9, Molly Campbell, Page 4 of 4, 01/09/04