

Variances ✔ Positive (+) ✘ Negative (-)

Cost Variance	CV	=	$BCWP - ACWP$
	CV %	=	$(CV / BCWP) * 100$
Schedule Variance	SV	=	$BCWP - BCWS$
	SV %	=	$(SV / BCWS) * 100$
Variance at Completion	VAC	=	$BAC - EAC$
	VAC %	=	$(VAC / BAC) * 100$

Performance ✔ > 1.0 ✘ < 1.0

Cost Performance	CPI	=	$BCWP / ACWP$
Schedule Performance	SPI	=	$BCWP / BCWS$

Overall Status

% Schedule	=	$(BCWS_{CUM} / BAC) * 100$
% Complete	=	$(BCWP_{CUM} / BAC) * 100$
% Spent	=	$(ACWP_{CUM} / BAC) * 100$

Baseline Execution Index (BEI) & Hit Task %

$$BEI = \frac{\text{Total Tasks Completed}}{\text{(Total Tasks with Baseline Finish On or Prior to Current Report Period)}}$$

$$\text{Hit Task \%} = 100 * \frac{\text{(Tasks Completed ON or PRIOR to Baseline Finish / Tasks Baselined to Finish within Current Report Period)}}{\text{Total Tasks Baselined to Finish within Current Report Period}}$$

Estimate @ Completion =

Actuals to date + [(Remaining Work) / (Performance Factor)]

$$EAC_{CPI} = ACWP_{CUM} + \frac{(BAC - BCWP_{CUM})}{CPI_{CUM}}$$

$$EAC_{Composite} = ACWP_{CUM} + \frac{(BAC - BCWP_{CUM})}{(CPI_{CUM} * SPI_{CUM})}$$

To Complete Performance Index (TCPI) §

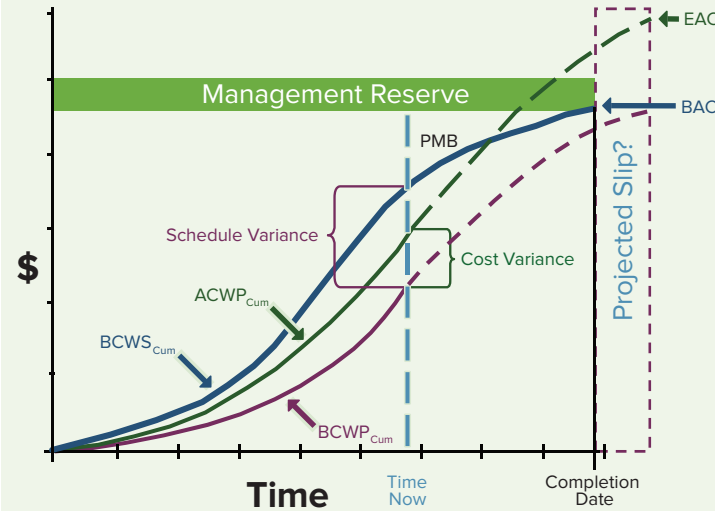
$$TCPI_{Target} = \frac{\text{Work \& Cost Remaining}}{\frac{(BAC - BCWP_{CUM})}{(Target - ACWP_{CUM})}}$$

§ To Determine the TCPI for BAC, LRE, or EAC Substitute TARGET with BAC, LRE, or EAC

To Determine the Contract Level TCPI for EAC, You May Replace BAC with TAB

Beginners Guide to Earned Value Management

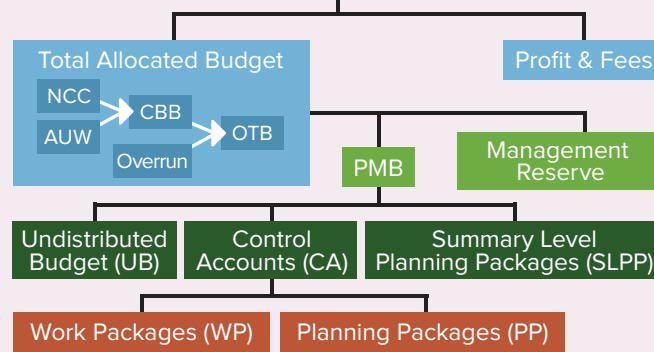
Total Allocated Budget



Acronyms

ACWP	Actual Cost of Work Performed Cost actually incurred in accomplishing work performed = ACTUAL COST
AUW	Authorized Unpriced Work Work contractually approved, but not yet negotiated / definitized
BAC	Budget At Completion Total budget for total contract thru any given level
BCWP	Budgeted Cost for Work Performed Value of completed work in terms of the work's assigned budget = EARNED VALUE
BCWS	Budgeted Cost for Work Scheduled Time-phased Budget Plan for work currently scheduled = PLANNED VALUE
CA	Control Account Lowest CWBS element assigned to a single focal point to plan & control scope / schedule / budget
CBB	Contract Budget Base Sum of NCC & AUW
EAC	Estimate At Completion Estimate of total Cost for total contract thru any given level generated by Ktr, PMO, DCMA, etc. = $EAC_{Ktr / PMO / DCMA}$
LRE	Latest Revised Estimate Ktr's EAC or EAC_{Ktr}
MR	Management Reserve Budget withheld by Ktr PM for unknowns / risk management
NCC	Negotiated Contract Cost Contract Price Minus profit or fee(s)
OTB	Over Target Baseline Sum of CBB + additional budget approved for remaining work
PAC	Price At Completion EAC Plus Adjusted Profit or Fee(s)
PMB	Performance Measurement Baselines Contract time-phased budget plan
PP	Planning Package Far-term CA activities not yet defined into WPs
SLPP	Summary Level Planning Package Far-term contract activities not yet defined into CAs
TAB	Total Allocated Budget Sum of all budgets for work on contract = NCC, CBB, or OTB
TCPI	To Complete Performance Index Efficiency needed from 'time now' to achieve a Cost Target = BAC, LRE, or EAC
UB	Undistributed Budget Broadly defined activities not yet distributed to CAs or SLPPs
WP	Work Package Near-term, detail-planned activities within a CA

Contract Price



EVM Policy: DoDI 5000.02, Enclosure 1. Table 8.

EVMS in accordance with EIA-748 is required for cost or incentive contracts, subcontracts, intra-government work agreements, & other agreements valued $\geq \$20M$ (TY \$). Contracts $\geq \$100M\#$ (TY \$) require that the EVMS be formally validated by the cognizant contracting officer. *Class Deviation-Earned Value Management System Threshold (9/1/15) EVM is discouraged on Firm-Fixed Price, Time & Material Contracts, & LOE activities regardless of cost. Refer to the IPMR Implementation Guide for IPMR Tailoring Guidance.

DoD's EVM Contracting Requirements

DFARS Clauses	252.234-7001 252.234-7002 252.242-7005	"NOTICE OF EVMS" FOR SOLICITATIONS "EVMS" FOR SOLICITATIONS & CONTRACTS "CONTRACTOR BUSINESS SYSTEMS" FOR SOLICITATIONS & CONTRACTS
Contract Performance Report	DI-MGMT-81466A	5 FORMATS = WBS, ORGANIZATION, BASELINE, STAFFING, EXPLANATIONS & PROB ANALYSES
Integrated Master Schedule	DI-MGMT-81650	MANDATORY FOR DOD EVMS CONTRACTS
Integrated Program Mngt Report	DI-MGMT-81861*	7 FORMATS = WBS, OBS / IPT, BASELINE, STAFFING, EXPLANATIONS & PROB ANALYSES, IMS, HISTORY / FORECAST COST
Integrated Baseline Review	Mandatory for all EVMS contracts	
WBS For Defense Materiel Items	MIL-STD-881-C	

*Combines & Supersedes DI-MGMT-81466A & 81650; Effective July 1, 2012
Incorporates guidance or standards from the Defense Acquisition University