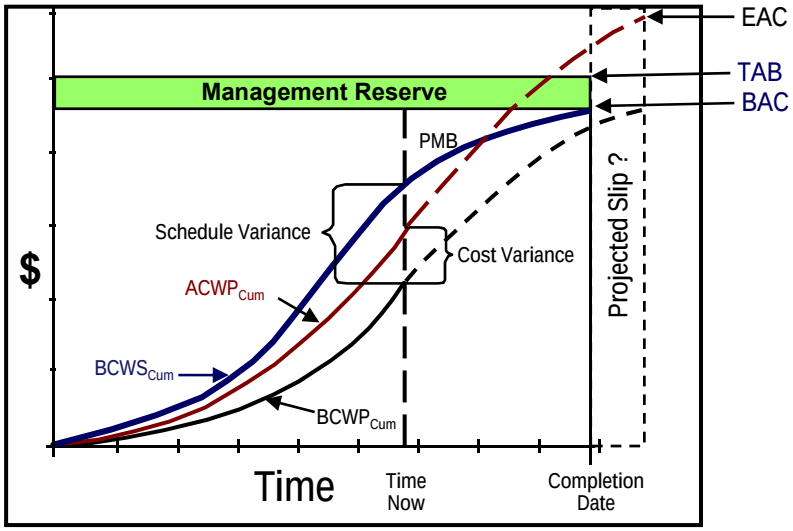
DAU EARNED VALUE MANAGEMENT 'GOLD CARD'



VARIANCES
Positive is Favorable, Negative is Unfavorable

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

OVERALL STATUS

% Schedule	= (BCWS^{CUM} / BAC) * 100
% Complete	= (BCWP^{CUM} / BAC) * 100
% Spent	= (ACWP$_{CUM}$ / BAC) * 100

EFFICIENCIES

Cost Efficiency	CPI	= BCWP / ACWP	Favorable is > 1.0, Unfavorable is < 1.0
Schedule Efficiency	SPI	= BCWP / BCWS	Favorable is > 1.0, Unfavorable is < 1.0

SCHEDULE METRICS (Selected)

BEI = Total Tasks Completed / (Total Tasks with Baseline Finish On or Prior to Current Report Period + Tasks without baseline finish dates)

Hit Task % = 100 * (Tasks in Denominator that Completed ON or Before Baseline Finish / Tasks Baselined to Finish within Current Report Period)

ESTIMATE @ COMPLETION = ACTUALS TO DATE + [(REMAINING WORK) / (PERFORMANCE FACTOR)]

EAC_{CPI} = $ACWP_{CUM}$ + [(BAC – $BCWP_{CUM}$) / CPI_{CUM}]

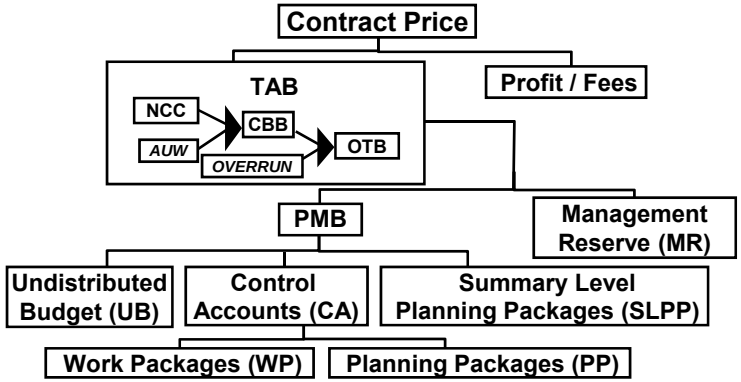
$EAC_{Composite}$ = $ACWP_{CUM}$ + [(BAC – $BCWP_{CUM}$) / (CPI_{CUM} * SPI_{CUM})]

TO COMPLETE PERFORMANCE INDEX (TCPI) §

$TCPI^{Target}$ = Work Remaining / Cost Remaining = (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



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	The sum of all budgets for the contract thru any given WBS/OBS 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 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 the contract thru any given level generated by Ktr, PMO, DCMA, etc. = $EAC_{Ktr\ /\ PMO\ /\ DCMA}$
ETC	Estimate to Complete	Estimate of the cost of remaining work
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 Baseline	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 assigned to a CA
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 time-phased for distribution to CAs or SLPPs
WP	Work Package	Near-term, detail-planned activities within a CA

EVM POLICY:

EVM in accordance with EIA-748 is required for cost or incentive contracts, subcontracts, intra-government work agreements, & other agreements valued > $20M (TY $).
Refer to the IPMDAR Implementation Guide for IPMDAR Tailoring Guidance.

DoD's EVM CONTRACTING REQUIREMENTS:

DFARS CLAUSES
- 252.234-7001 "NOTICE OF EVMS" FOR SOLICITATIONS
- 252.234-7002 "EVMS" FOR SOLICITATIONS & CONTRACTS
- 252.242-7005 "CONTRACTOR BUSINESS SYSTEMS" FOR SOLICITATIONS & CONTRACTS

Integrated Program Mngt **Data and Analysis** Report DI-MGMT-81861

INTEGRATED BASELINE REVIEW — MANDATORY FOR ALL CONTRACTS THAT HAVE EVM INVOKED ON THE CONTRACT

EVM CoP: https://www.dau.edu/cop/evm | **Contact:** EVM.dau@dau.edu | **Revised Jun 2020**