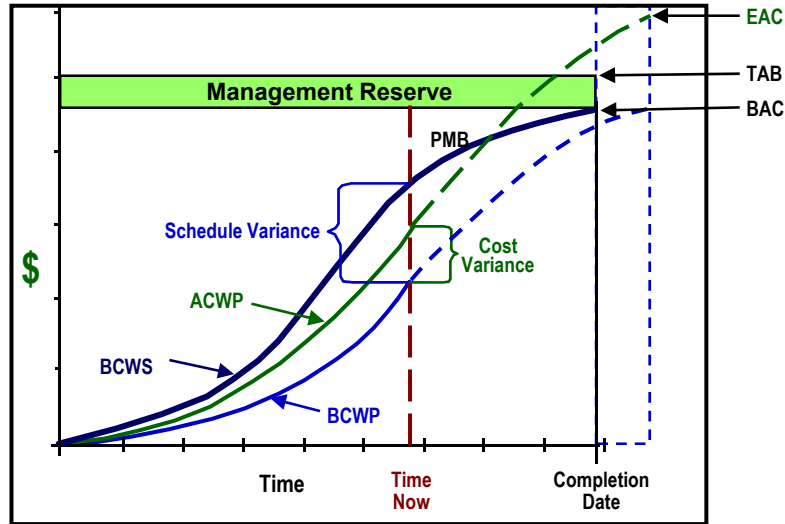




# Earned Value Management 'Gold Card'



**VARIANCES** Favorable is Positive, Unfavorable is Negative

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

**OVERALL STATUS**

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

**DoD TRIPWIRE METRICS** Favorable is > 1.0, Unfavorable is < 1.0

**Cost Efficiency**  $CPI = BCWP / ACWP$   
**Schedule Efficiency**  $SPI = BCWP / BCWS$

**BASELINE EXECUTION INDEX (BEI) (Schedule Metric)**

$BEI = \# \text{ of Baseline Tasks Actually Completed} / \# \text{ of Baseline Tasks Scheduled for Completion}$

**CRITICAL PATH LENGTH INDEX (CPLI) (Schedule Metric)**

$CPLI = (\text{Critical Path Duration} + \text{Float Duration}_{\text{(to baseline finish)}}) / \text{Critical Path Duration}$

**TO COMPLETE PERFORMANCE INDEX (TCPI) # §**

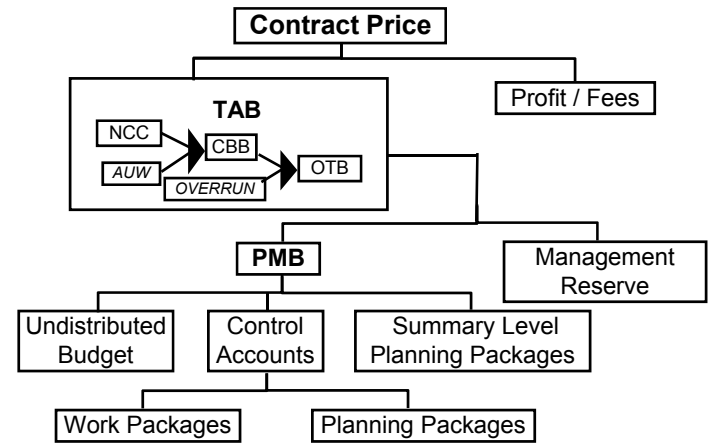
$TCPI_{EAC} = \text{Work Remaining} / \text{Cost Remaining} = (BAC - BCWP_{CUM}) / (EAC - ACWP_{CUM})$

**ESTIMATE AT COMPLETION #**

$EAC = \text{Actuals to Date} + [(\text{Remaining Work}) / (\text{Efficiency Factor})]$   
 $EAC_{CPI} = ACWP_{CUM} + [(BAC - BCWP_{CUM}) / CPI_{CUM}] = BAC / CPI_{CUM}$   
 $EAC_{Composite} = ACWP_{CUM} + [(BAC - BCWP_{CUM}) / (CPI_{CUM} * SPI_{CUM})]$

# To Determine a Contract Level TCPI or EAC; You May Replace BAC with TAB

§ To Determine the TCPI<sub>BAC or LRE</sub> Replace EAC with BAC or LRE



**TERMINOLOGY**

<b>NCC</b>	Negotiated Contract Cost	Contract price less profit / fee(s)
<b>A UW</b>	Authorized Unpriced Work	Work contractually approved, but not yet negotiated / definitized
<b>CBB</b>	Contract Budget Base	Sum of NCC and A UW
<b>OTB</b>	Over Target Baseline	Sum of CBB and recognized overrun
<b>TAB</b>	Total Allocated Budget	Sum of all budgets for work on contract = NCC, CBB, or OTB
<b>BAC</b>	Budget At Completion	Total budget for total contract thru any given level
<b>PMB</b>	Performance Measurement Baseline	Contract time-phased budget plan
<b>MR</b>	Management Reserve	Budget withheld by Ktr PM for unknowns / risk management
<b>UB</b>	Undistributed Budget	Broadly defined activities not yet distributed to CAs
<b>CA</b>	Control Account	Lowest CWBS element assigned to a single focal point to plan & control scope / schedule / budget
<b>WP</b>	Work Package	Near-term, detail-planned activities within a CA
<b>PP</b>	Planning Package	Far-term CA activities not yet defined into WPs
<b>BCWS</b>	Budgeted Cost for Work Scheduled	Value of work planned to be accomplished = <b>PLANNED VALUE</b>
<b>BCWP</b>	Budgeted Cost for Work Performed	Value of work accomplished = <b>EARNED VALUE</b>
<b>ACWP</b>	Actual Cost of Work Performed	Cost of work accomplished = <b>ACTUAL COST</b>
<b>EAC</b>	Estimate At Completion	Estimate of total cost for total contract thru any given level; may be generated by Ktr, PMO, DCMA, etc. = $EAC_{Ktr / PMO / DCMA}$
<b>LRE</b>	Latest Revised Estimate	Ktr's EAC or $EAC_{Ktr}$
<b>SLPP</b>	Summary Level Planning Package	Far-term activities not yet defined into CAs
<b>TCPI</b>	To Complete Performance Index	Efficiency needed from 'time now' to achieve an EAC

**EVM POLICY:** DoDI 5000.02, Encl 4. Table 5. EVMS in accordance with ANSI/EIA-748 is required for cost or incentive contracts, subcontracts, intra-government work agreements, & other agreements valued ≥ \$20M (Then-Yr \$). EVMS contracts ≥ \$50M (TY \$) require that the EVM system be formally validated by the cognizant contracting officer. Additional Guidance in Defense Acquisition Guidebook and the Earned Value Management Implementation Guide (EVMIG). EVMS is discouraged on Firm-Fixed Price, Level of Effort, & Time & Material efforts regardless of cost.

**EVM CONTRACTING REQUIREMENTS:**

Non-DoD FAR Clauses – Solicitation – 52.234-2 (Pre-Award IBR) or 52.234-3 (Post Award IBR)  
 – Solicitation & Contract – 52.234-4

DoD (≥ \$20M) DFAR Clauses – 252.234-7001 for solicitations and 252.234-7002 for solicitations & contracts

Contract Performance Report – DI-MGMT-81466A \* 5 Formats (WBS, Organization, Baseline, Staffing & Explanation)

Integrated Master Schedule – DI-MGMT-81650 \* (Mandatory for DoD EVMS contracts)

Integrated Baseline Review (IBR) – Mandatory for all EVMS contracts

\* See the EVMIG for CPR & IMS tailoring guidance.

EVM Home Page = <https://acc.dau.mil/evm> eMail Address: [EVM.dau@dau.mil](mailto:EVM.dau@dau.mil)  
 DAU POC: (703) 805-5259 (DSN 655)  
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