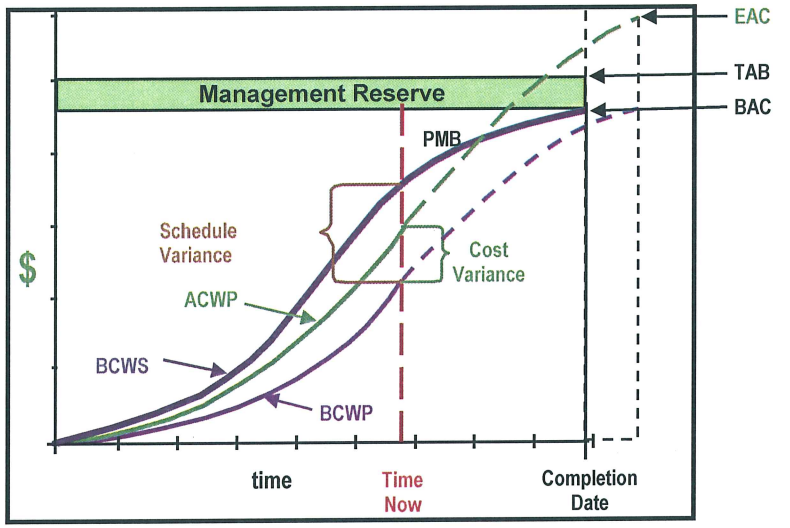
Department of Energy
Earned Value Management
Gold Card*



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

PERFORMANCE INDICES

Favorable is > 1.0, Unfavorable is < 1.0

Cost Efficiency CPI = BCWP / ACWP

Schedule Efficiency SPI = BCWP / BCWS

OVERALL STATUS

% Schedule = ($BCWS_{CUM}$ / BAC) * 100

% Complete = ($BCWP_{CUM}$ / BAC) * 100

% Spent = ($ACWP_{CUM}$ / BAC) * 100

ESTIMATE AT COMPLETION

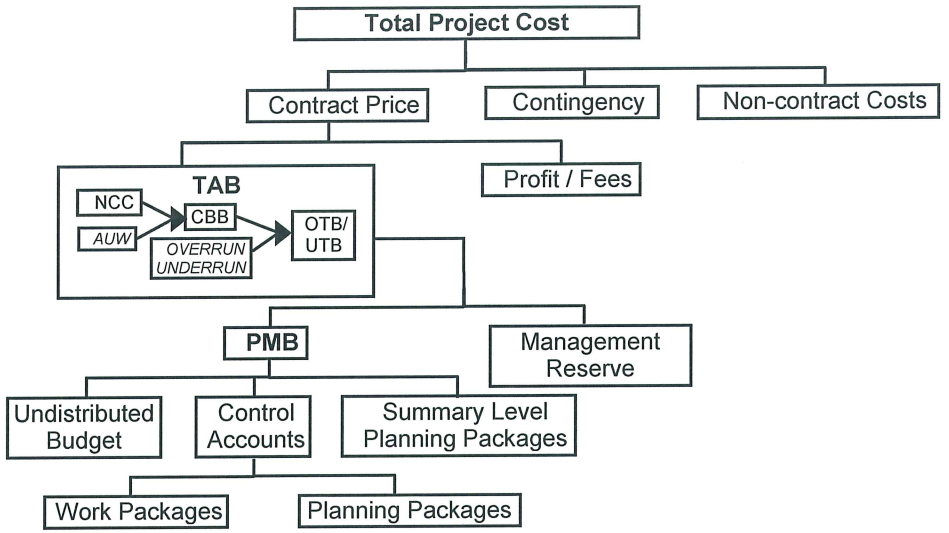
EAC = Actuals to Date + [(Remaining Work) / (Efficiency Factor)]

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

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

TO COMPLETE PERFORMANCE INDEX (TCPI)

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



TERMINOLOGY

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

PERFORMANCE REPORTING OF CONTRACTOR EVM INFORMATION

Format 1 - Work Breakdown Structure normally at Level 3 of the Contract Work Breakdown Structure (CWBS)

Format 2 - Organization Breakdown Structure at the Control Account level reflecting contractor's internal organization established to execute contract.

Format 3 - Baseline changes from project inception

Format 4 - Staffing forecast

Format 5 - Analysis of variances

(Format 1, 2, 5 are the formats routinely used for most projects)

*This chart is a adaptation of the original Defense Acquisition University's Gold Card. This adaptation includes relationships to the Performance Baseline and deletes reference to DoD guidelines. Credit for the Gold Card and all its forms should be given to DAU not to DOE.