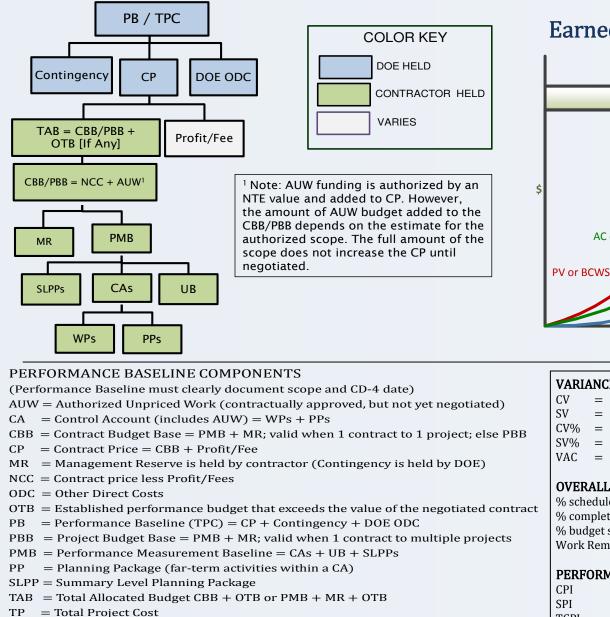


DOE EVMS GOLD CARD 20190308



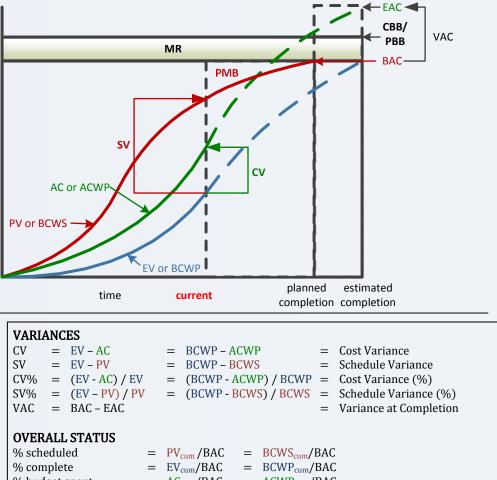
- UB = Undistributed Budget (activities not yet distributed to CA)
- WP = Work Package (near-term, detail-planned activities within a CA)

EVMS BASIC COMPONENTS

AC = Actual Cost= ACWP = Actual Cost of Work Performed

- EV = Earned Value=BCWP = Budgeted Cost for Work Performed
- PV =Planned Value= BCWS = Budgeted Cost for Work Scheduled
- $BAC = Budget at Completion = \sum BCWS = Sum of Budgeted Cost for Work Scheduled EAC = Estimate at Completion = ACWP + Estimate to Complete (ETC)$

Earned Value Management System Basics



% complete	=	EV _{cum} /BAC	=	BCWP _{cum} /BAC
% budget spent	=	AC _{cum} /BAC	=	ACWP _{cum} /BAC
Work Remaining (WR)	=	BAC - EV_{cum}	=	$BAC \text{-} BCWP_{cum}$

PERFORMANCE INDICES (Favorable is >1.0, unfavorable is <1.0)

CPI	=	EV / AC	=	BCWP / ACWP	=	Cost Performance Index
SPI	=	EV / PV	=	BCWP / BCWS	=	Schedule Performance Index
TCPI _{EAC}	=	WR / (EAC - AC _{cum})	=	EAC-based To Complete Performance Index		

ESTIMATE AT COMPLETION FORMULAE

EAC =	BAC / CPI _{cum}	=	Estimate at Completion (general)
EAC _{CPIcum} =	$AC_{cum} + WR/CPI_{cum}$	=	Estimate at Completion (CPI)
EAC _{composite} =	AC _{cum} + WR/(CPI _{cum} * SPI _{cum})	=	Estimate at Completion (composite)
EAC _{CPI3mo} =	$AC_{cum} + WR / CPI_{3mo}$	=	Estimate at Completion (3 Mo. CPI)
Note: _{CPI3mo} =	(IncEVn + IncEVn-1 + IncEVn-2) /	(IncA	Cn + IncACn-1 + IncACn-2)