Monitoring via EVM

(PROJECT STARTED 7 MONTHS AGO)

Task ID	Activity	Pred.	Duration (months)	Budget (K$)	Progress	AC
1	Preparation	-	2	600	100%	600
2	Design	1	3	1200	100%	1400
3	Implementation	2	2	400	50%	200
4	Testing	2	3	1200	33.3%	500
5	Deployment	4	3	300	0%	0

- **How much is it Over/Under budget?**

The project is over the budget by 300,000$.

- **How many days, is it ahead/behind the schedule?**

The project is back and behind by 30 days (1 month).

- **By the end of the project, how much will it be Over / Under Budget?**

By the end of the project it will be well over 500,000$ than the budget.

CV - Cost variance	Cost variance = budgeted cost of work performed (BCWP) - actual cost of work performed (ACWP) **(CV = EV - AC)** AC = 600 + 1400 + 200 + 500 = 2700K EV = 600 + 1400 + (0.5 * 400) + (0.33 * 1200) = 2600K CV = 2600 - 2700 = -300K
SV - Schedule Variance	Schedule Variance (SV) = Earned Value (EV) – Planned Value (PV) **(SV = EV - PV)** PV = scheduled work * BAC PV = 3 * 2200 = 6600K SV = 2600 - 400 = 2200K
CPI - Cost Performance Index	Cost Performance Index (CPI) = earned value (EV) / actual cost (AC) **(CPI = EV / AC)** CPI = EV / AC CPI = 2600 / 2700 = 0.962 > 1 over budget
SPI - Scheduled Performance Index	Scheduled Performance Index= earned value (EV) / planned value (PV) **(SPI = EV / PV)** SPI = EV / PV SPI = 2600 / 6600 = 0.4
EAC - Estimate at Completion	Estimate at Completion (EAC) = AC + (BAC - EV)/SPI * CPI(Estimate at Completion equals Actual Costs plus Budget at Completion minus Earned Value divided by Schedule Performance Index times Cost Performance Index). (EAC = BAC / CPI) EAC = BAC / CPI EAC = 2200 / 0.962 = 2291.667