

## Monitoring via EVM

### 1. By How much, is it over/under budget?

Over budget by 300KS

### 2. By How many days, is it ahead/behind the schedule?

Behind the schedule by 1 month

### 3. By the end of the project, by how much will it be over/under budget?

Over budget by 500KS

### 4. Calculate CV, SV, CPI, SPI, EAC

Task ID	ACWP	BCWP	BCWS
1	600	600	600
2	1400	1200	1200
3	200	200	400
4	500	400	800
5	0	0	0
<b>Total</b>	<b>2700</b>	<b>2400</b>	<b>3000</b>

ACWP: Actual cost of work performed

BCWP: Budgeted cost of work performed

BCWS: Budgeted cost of work scheduled

$$CV = BCWP - ACWP = 2400 - 2700 = -300$$

$$SV = BCWP - BCWS = 2400 - 3000 = -600$$

$$\text{CPI} = \text{BCWP}/\text{ACWP} = 2400/2700 = 0.889$$

$$\text{SPI} = \text{BCWP}/\text{BCWS} = 2400/3000 = 0.8$$

$$\text{EAC} = \text{BAC}/\text{CPI} = 3700/0.889 = 4162$$