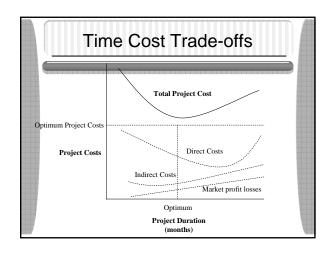
Integrating Cost and Schedule Week 10 Construction Estimation, Planning and Control



Assumptions

- Increasing or decreasing and activity duration increases cost for that activity
- Decreasing a project's duration leads to lower indirect costs
- A project's duration can be decreased by decreasing duration of critical path
- Delta diff from increasing direct cost and reducing indirect cost: the optimal time and cost

Cost + Schedule

- Guidelines for integrating cost and schedule data
- Pioneered by US Defense agencies in the 1960s
 - DOD: Cost and Schedule Control System Criteria (C/SCSC)
 - DOE: Performance Measurement System (PMS)

	Budgeted	Actual	Forecast
Work Scheduled	BCWS	ACWB	
Work Performed	BCWP	ACWP	
At Completion	BAC		FAC

Parameters

- Schedule Variance (SV) = BCWP BCWS
 - SPI = BCWP/BCWS (Sched. Perform. Index)
- Cost Variance (CV) = BCWP ACWP
 - CPI = BCWP/ACWP (Bud. Perform. Index)
- EAC = ACWP + (BAC BCWP)
- Earned Value = % Comp. x BAC

