



Topics Today:

1. Determine Budget Process. (Inputs, Tools & Tech)

7.3 Determine Budget

Determine Budget is the process of aggregating the estimated costs of individual activities or work packages to establish an authorized cost baseline. The key benefit of this process is that it determines the cost baseline against which project performance can be monitored and controlled. The inputs, tools and techniques, and outputs of this process are depicted in Figure 7-6. Figure 7-7 depicts the data flow diagram of the process.

7.3 Determine Budget

Input (9)

- Cost management plan
- Scope baseline
- Activity cost estimates
- · Basis of estimates
- Project schedule
- Resource calendars
- Risk register
- Agreements
- OPA

Tools & Techniques (5)

- Cost aggregation
- Reserve analysis
- Expert judgment
- Historical relationships
- Funding limit reconciliation

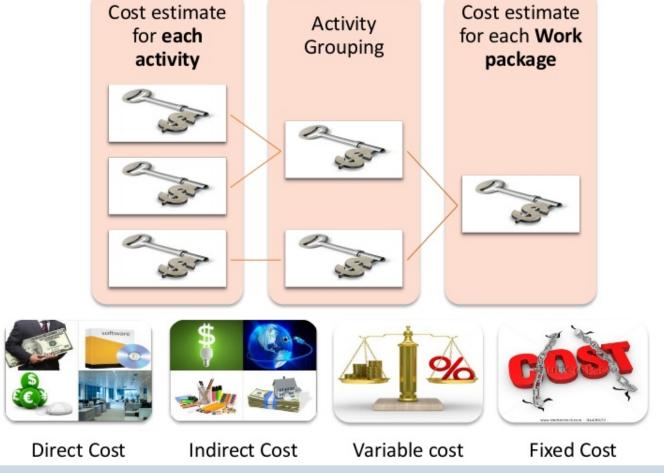
Outputs (3)

- Cost baseline
- Project funding requirements
- Project documents updates

7.3 Determine Budget->Input->Activity Cost Estimate



Quantitative assessments of the probable costs required to complete project work. (summary form or in detail)



7.3 Determine Budget-> Input-> Basis of Estimate



The supporting documentation should provide a clear & complete understanding of how cost estimate was derived.

Documentation consist of: Method of estimations All assumptions made Any known constraints Scope of Work

7.3 Determine Budget->Input->Resource Calendar



Identifies the working days and shifts on which each specific resource is available.

Provides details about when & how long identified project resource will be available

Determine resource cost

7.3.1.6 Resource Calendars

Described in Sections 9.2.3.2 and 12.2.3.3. Resource calendars provide information on which resources are assigned to the project and when they are assigned. This information can be used to indicate resource costs over the duration of the project.

7.3 Determine Budget ->Inputs->Agreement



Provide information about resource costs like Human resource cost, equipment costs etc

Provide payment milestone of each agreements

Project can have one or more agreements

7.3 Determine Budget-> Tools & Techniques



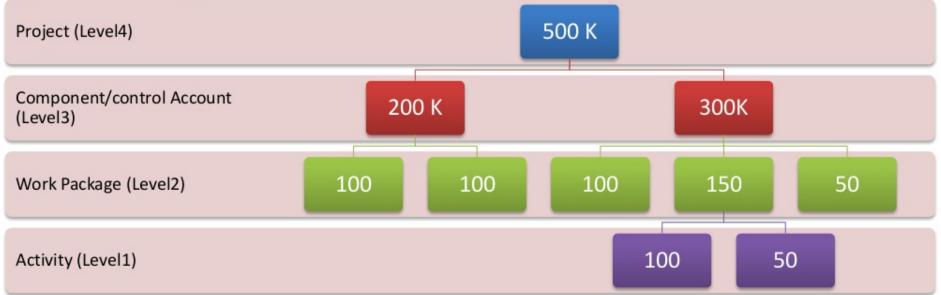


7.3 Determine Budget->T&T->Cost Aggregation



It is the accumulation of single costs following the structure of the WBS (and the distribution of payments with respect to the schedule base line)

Cost estimates are aggregated by Work packages -> Higher component levels (control accounts) -> Entire project.



7.3 Determine Budget->T&T->Historical Relationship



Any historical relationships that result in parametric estimates or analogous estimates

It uses project characteristics (parameters) to develop mathematical models to predict total project costs.

Simple

Home construction -> Cost per square meter

Complex

 Software development Model -> Multiple separate adjustment factors, each of which has numerous points within it (code, integrations, function points, technology, data migration etc.)

Reliable when:

- Accurate Historical information is available
- Quantifiable parameters
- Scalable models (Can work with Large, small or phases of the projects)

7.3 Determine Budget->T&T->Funding limit reconciliation



The expenditure of funds should be reconciled with any funding limits on the commitment of funds for the project.

A variance between funding limits and planned expenditures will sometimes necessitate rescheduling of work to level out the rate of expenditures.

This is accomplished by placing imposed date constraints for work into the project schedule.

Q1	Q2	Q3	Q4	
100K	100K	100K	100K	
124K	125K			

Project is moving fast ahead of schedule & within Budget, however Management has Imposed Quarterly Funds limit hence project has to re-schedule & slow down.

Output of Determine Budget Process

1. Cost Performance Base Line.

A time-phased budget. It is used to measure and monitor cost performance. It include all authorized budgets but exclude management reserves. Info for project funding requirements

2. Project Funding Requirements.

3. Project Document Updates.



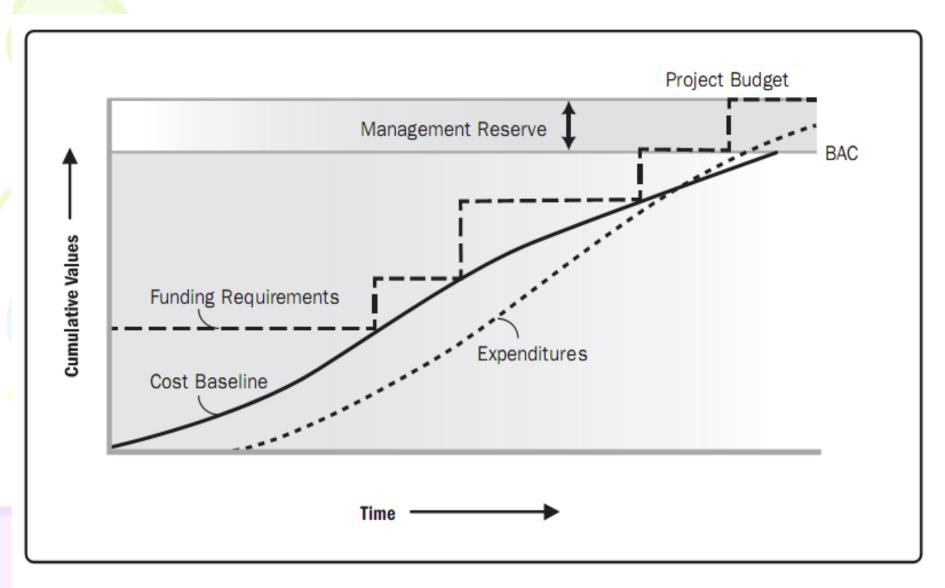


Figure 7-9. Cost Baseline, Expenditures, and Funding Requirements