paul.vesey@lit.ie

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Estimate Costs
Determine Budget
Control Costs
Early stages of a project have the greatest influence in the overall costs associated with a project
Establishes the Precision Level to be used for cost estimates
Defines Units of Measure
Control Accounts
Control Thresholds
Performance Measurement Rules
Reporting Formats
Process Descriptions
       Cost Estimating is not the same as Pricing
Inputs
 Cost Estimating Templates
Historical Information
Technical Issues and Concerns
Analogous Estimating
Determine Resource Cost Rates ^3, m^2, etc. Quotations
Bottom-up Estimating
        Parametric Estimating
Reserve Analysis
Project Management Estimating Software
Basis of Estimates:
       f(x) = \frac{1}{1+e^{-t}} \mathbf{Project \ Time} \alpha f(x) = \frac{1}{1+e^{-t}} \alpha = 0.25 \alpha = 0.50 \alpha = 2.00 \alpha = 6.00 \mathbf{Effect \ of \ Changing} \ \alpha
       \beta\beta = 0.05\beta = 0.25\beta = 5.00\beta = 15.00Effect of Changing \beta
       \lambda f(x) = \frac{1}{1+e^{-t}}\lambda = 0.75\lambda = 1.50\lambda = 2.00\lambda = 3.00Effect of Changing \lambda
\alpha\beta\lambda
 Assumptions
 Results
        Assumptions and known information
Assumptions and known information At time of Contract Start Cost Increase to Contractor \times 1.06044 = 2,253,435.002,125,000 \times 1.0980 = 2,333,250.00 Recoverable via CPA based on CPI \times 1.02723 = 5,136,150Loss to Contractor 336,685136,150 = 200,535
        Results of Analysis
Clause 4.9.3 Civil Engineering Works Designed by the Employer Contractors need to learn how to price inflation risk
        Latest of What about planning?
       Note:
\alpha\beta\lambda
\alpha \rho \lambda
Inputs
Tools and Techniques
CAUTION:
Funding Limit Reconciliation
       Project Funding Requirements
Project Funding Requirements
Performance Reports
 Work Performance Information
Tools and Techniques
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Cost Variance