

Project Selection

$$PV = FV / (1+r)^n$$

$$FV = PV * (1+r)^n$$

NPV = Pick the biggest number

ROI = Pick the biggest number

IRR = Pick the biggest number

Payback Period = Initial Investment / Cash Inflow per Period

BCR = Benefit / Cost

CBR = Cost / Benefit

Opportunity Cost = Value of project not being chosen

Communications

Communication Channels = $n * (n - 1) / 2$

Numbers of conversations each person can have at any given point in time = $n - 1$

test

Procurement

PTA = $((\text{Ceiling Price} - \text{Target Price}) / \text{Bayers Share Ratio}) + \text{Target Cost}$

Risk

$$EMV = P * I \quad \text{!}$$

Sinom

PV — Present value

FV — Future Value

r — Interest rate

n — Period of time

NPV — Net Present Value

ROI — Rate of Interest

IRR — Internal Rate of Return

BCR — Benefit Cost Ratio

CBR — Cost Benefit Ratio

PTA — Point of Total Assumption

EMV — Expected Monetary Value

P — Probability

Sinom (cont)

I — Impact

EVM — Earned Value Management

CV — Cost Variance

SV — Schedule Variance

AC — Actual Cost

PV — Present Value

CPI — Cost Performance Index

SPI — Schedule Performance Index

EAC — Estimate at Complete

BAC — Budget at Complete

TCPI — To Complete Performance Index

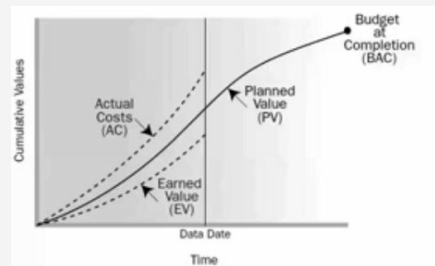
ETC — Estimate To Complete

EV — Earned Value

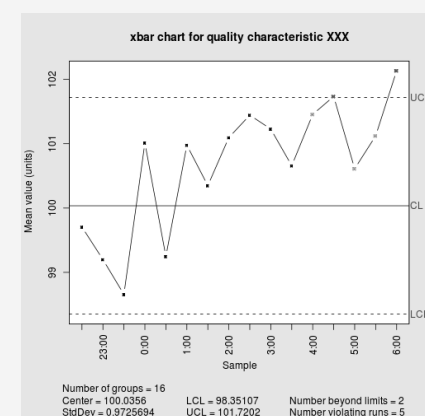
VAC — Variance at Completion

C — Cumulative

Cash flow, Cost baseline and Funding display



The Control Chart



Earned Value Management (EVM)

$$EV = PV / AC$$

$$CV = EV - AC$$

$$SV = EV - PV$$

$$CPI = EV / AC$$

$$SPI = EV / PV$$

$$TCPI = (BAC / EV) / (BAC / AC)$$

$$EAC = BAC / CPI \text{ no variances}$$

$$EAC = AC + ETC \text{ with variances}$$

$$EAC = AC + (BAC - EV) \text{ typical}$$

$$EAC = AC + (BAC - EV) / CPI \text{ atypical}$$

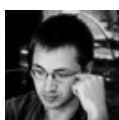
$$ETC = EAC - AC$$

$$VAC = BAC - EAC$$

$$CPI^C = EV^C / AC^C$$

$$PV = FV / (1+r)^n$$

$$\text{Percent complete} = (EV / BAC) * 100$$



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