O Present value (PV) = FV 1) Net present value (NPV) = Income - Cost Kange estimates: 1) Rough Order & magnitude (Rom): -25 to +75 (2) Budget Estimate : -10 to +25 3 Definitive Estimate: ±10 sompesay -Sto+10  $CPI = \frac{ev}{Ac} = \frac{ev}{PV} > 1$  good channels

FAC 2 EVM: Cost variance (CV) = EV-AC EAC = AC + Bottom up (4) EAC = AC+ (BAC-AV) DEAC = ACON BAC TOPI = BAC-EV < 1 good
BAC-AC Junary 80/20 rule

Quality = fitness for use

top management involvement ETC = EAC-AC VAC = BAC - EAC Deming PDCA cycle Crosby 14 points of 19m Quality: conformance to rev. cost of poor quality +10 68.27%. zero defects 99.73 % 79.999799 1 Ramillion

Knowledge Areas	Project Management Process Groups				
	Initiating Process Group	Planning Process Group	Executing Process Group	Monitoring and Controlling Process Group	Closing Process Group
4. Project Integration Management	4.1 Develop Project Charter	4.2 Develop Project Management Plan	4.3 Direct and Manage Project Work	4.4 Monitor and Control Project Work 4.5 Perform Integrated Change Control	4.6 Close Project or Phase
5. Project Scope Management		5.1 Plan Scope Management 5.2 Collect Requirements 5.3 Define Scope 5.4 Create WBS		5.5 Validate Scope 5.6 Control Scope	
6. Project Time Management	a d	6.1 Plan Schedule Management 6.2 Define Activities 6.3 Sequence Activities 6.4 Estimate Activity Resources 6.5 Estimate Activity Durations 6.6 Develop Schedule		6.7 Control Schedule	
7. Project Cost Management		7.1 Plan Cost Management 7.2 Estimate Costs 7.3 Determine Budget		7.4 Control Costs	
8. Project Quality Management		8.1 Plan Quality Management	8.2 Perform Quality Assurance	8.3 Control Quality	
9. Project Human Resource Management		9.1 Plan Human Resource Management	9.2 Acquire Project Team 9.3 Develop Project Team 9.4 Manage Project Team		
10. Project Communications Management		10.1 Plan Communications Management	10.2 Manage Communications	10.3 Control Communications	
11. Project Risk Management	4	11.1 Plan Risk Management 11.2 Identify Risks 11.3 Perform Qualitative Risk Analysis 11.4 Perform Quantitative Risk Analysis 11.5 Plan Risk Responses		11.6 Control Risks	
12. Project Procurement Management		12.1 Plan Procurement Management	12.2 Conduct Procurements	12.3 Control Procurements	12.4 Close Procurements
13. Project Stakeholder Management	13.1 Identify Stakeholders	13.2 Plan Stakeholder Management	13.3 Manage Stakeholder Engagement	13.4 Control Stakeholder Engagement	