Loan and Grant Management Unit

Ministry of Finance

Project Finance Management Course Handbook







Developed under USAID contract by BearingPoint

2004

Project Finance Management Course Handbook

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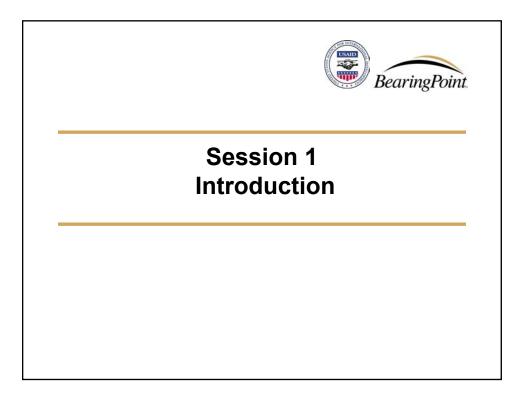
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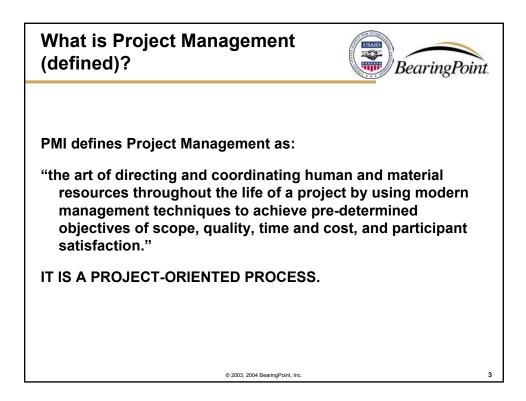
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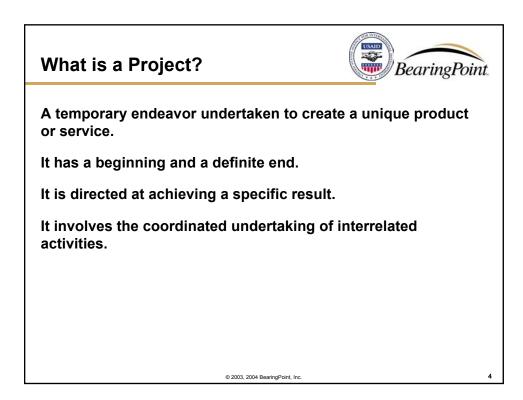
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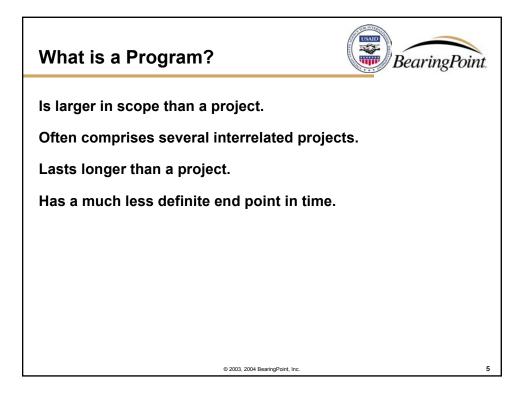
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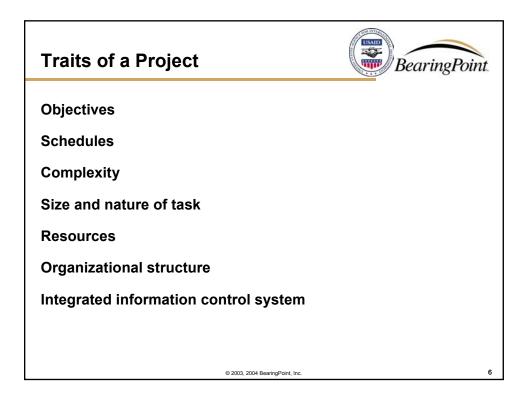


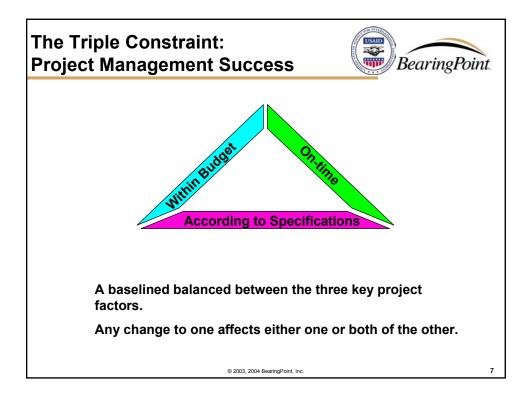


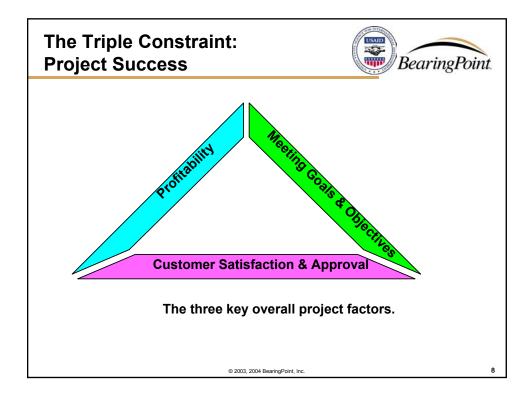


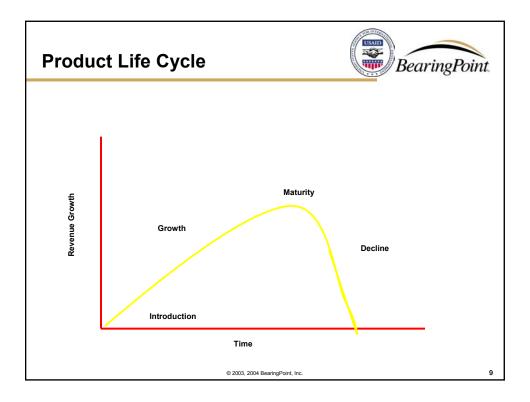


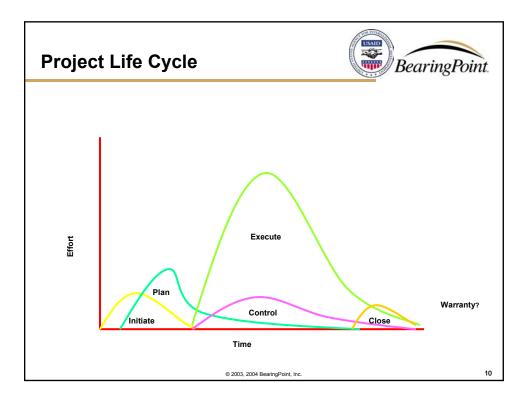


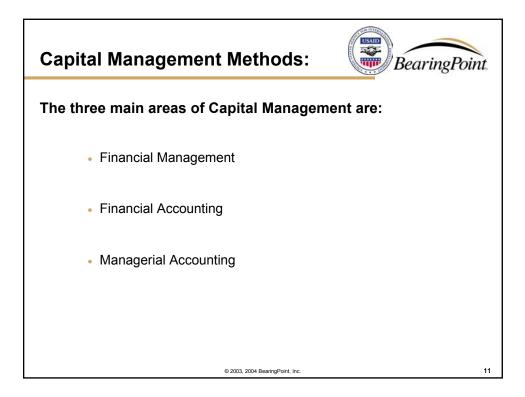


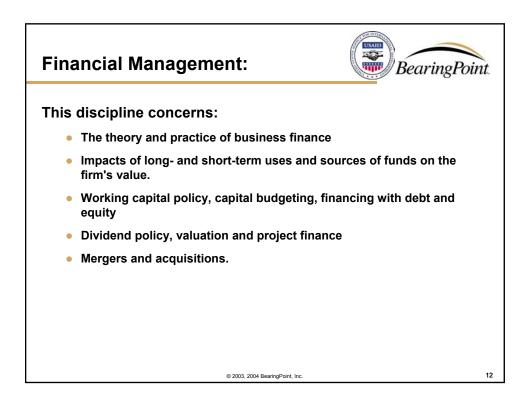


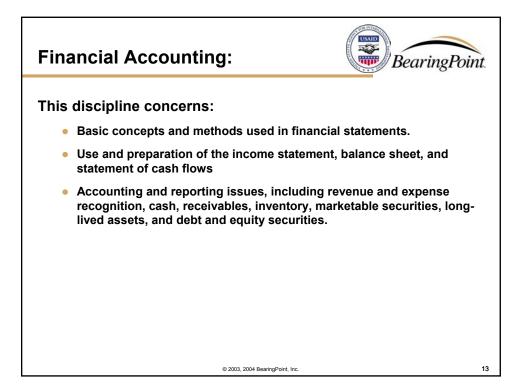


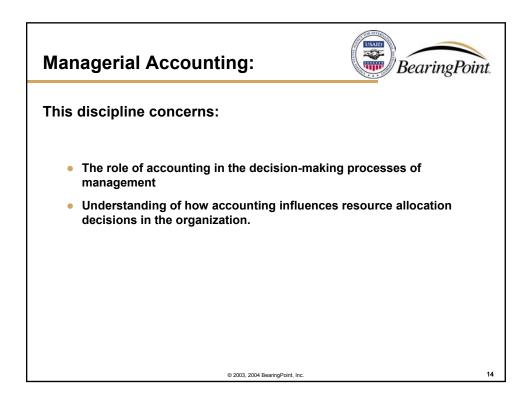








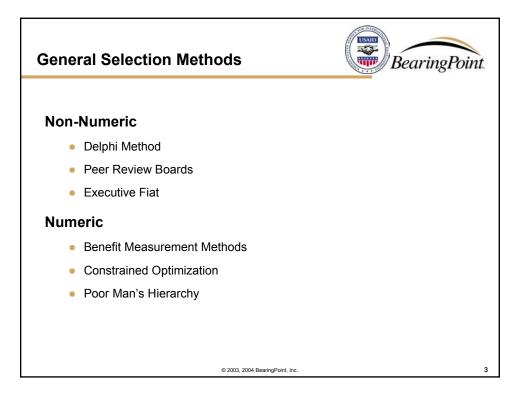


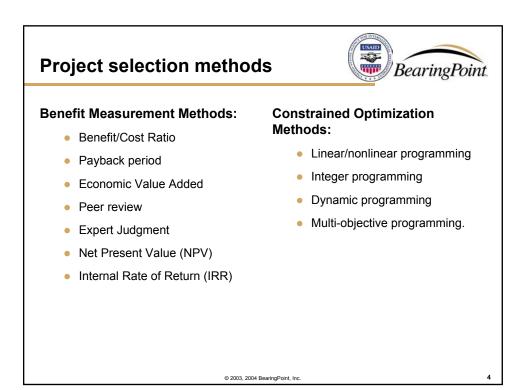


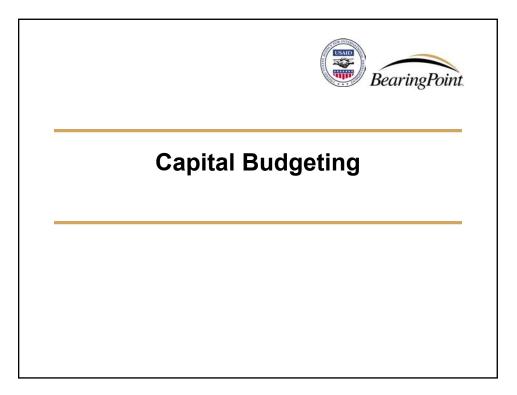


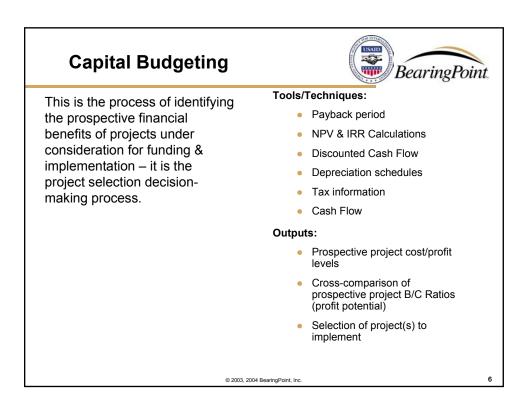








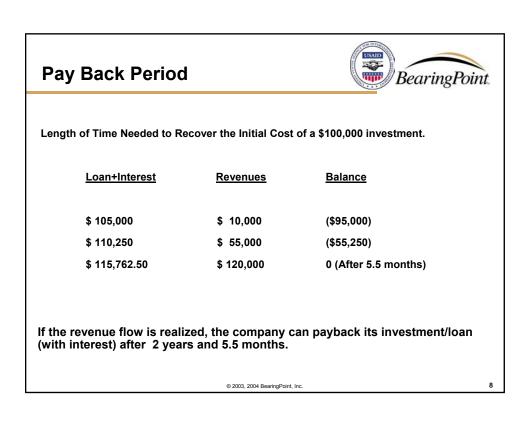




eriod BearingPoint
s you how long it would take to recover an investment from the to that investment.
e next slide illustrates how payback period analysis works. In this y invests \$100,000 into a project. After discounting for inflation, for years 1, 2 and 3 is: \$10,000, \$55,000, and \$120,000. Given unpaid loan is 10% per annum, the company will pay off its initial accrued interest around mid-way through Year 3.
period is 2.55 years (assuming an even revenue flow during
e next slide illustrates how payback period analysis works. In this y invests \$100,000 into a project. After discounting for inflation, for years 1, 2 and 3 is: \$10,000, \$55,000, and \$120,000. Given unpaid loan is 10% per annum, the company will pay off its initial accrued interest around mid-way through Year 3.

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Pay-back Period (Pro and Con)



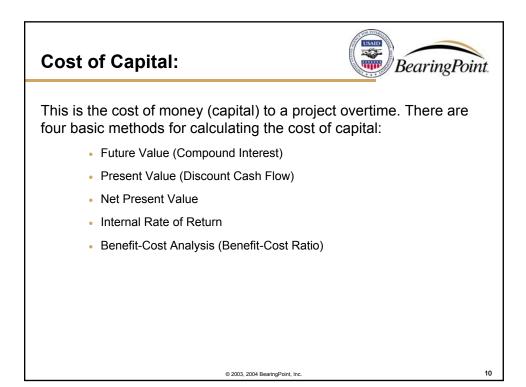
Advantages of Pay Back Period Analysis

- Quantifies the recovery of investments and accrued interest payments.
- Considers the value of money over time (discount cash flow).
- Provides basic cash flow risk analysis for an investment.
- Allows a portfolio of investment options to be rank order by earliest payback to latest payback.

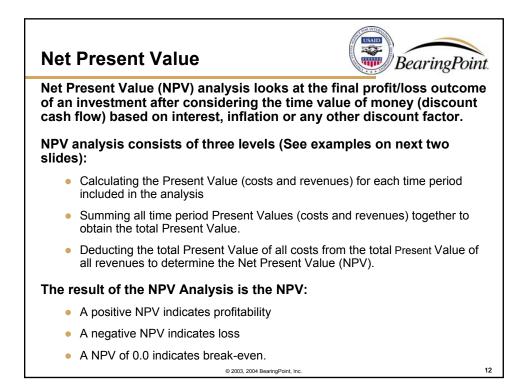
Disadvantages of Pay Back Period Analysis

- Does not consider revenue streams beyond the payback point.
- Does not consider the pattern of revenue streams (even, periodic, endof-year, etc...).
- Requires assumptions of cash flow (revenue) streams that may not be accurate.

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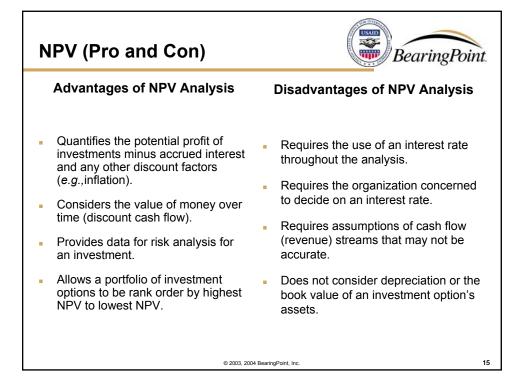


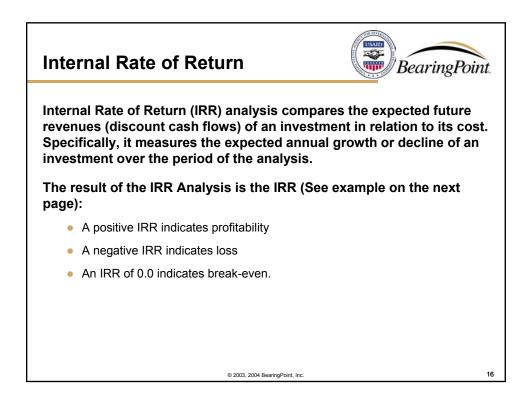
Future Value		BearingPoint			
Principal	Interest (5%/yr)	Total			
\$ 100,000	\$ 5,000	\$105,000			
\$ 105,000	\$ 5,250	\$110,250			
\$ 110,250	\$ 5,512.50	\$115,762.50			
\$ 115,762.50	\$ 5,788.125	\$ <u>121,550.625</u>			
	Total cost - Principal = Total interest paid.				
	• \$ 121,550.625 - \$ 100,000 = \$ 21,550.625				
Thus, the total inter its loan after four ye		s \$ 21,550.625 when (if) it pays back			
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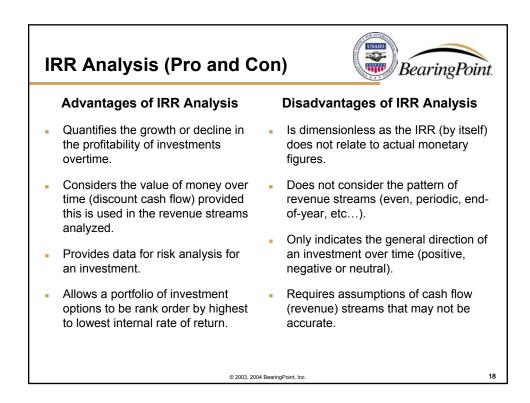
Present Value		BearingPoint
Present Value:	Present Value Example	:
Vt = Value in prescribed time period	 Time period ¹ revenues Time period ² revenues Annual interest 	= \$10,000 = \$10,000 = .1 (10%)
i = Annual interest rate	Then:	
n = number of time periods	Time period ¹ revenues	= \$10,000/(1.1) ¹ = \$10,000/1.1
PV = <u>Vt</u> (1+i) ⁿ	■Time period ² revenues	= PV = \$9,090.90 = \$10,000/(1.1) ² = \$10,000/1.21 = PV = \$8,264.46
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Net Present Value	B	earingPoint
Net Present Value:	If, Time period ¹ revenues	= \$10,000 = \$10,000
Net Present Value : ΣPV – I = NPV	 Time period ² revenues Annual interest Capital investment 	= \$10,000 = .1 (10%) = \$15,000
Where:	Then:	,
Σ PV = Sum of all present values I = Capital investment	 Time period ¹ PV Time period ² PV 	= \$9,090.90 = \$8,264.46
	■ Sum PV ■ NPV = \$17,355.36 - \$15,00 Conclusion:	= \$17,355.36 00 = \$2,355.36
	Investment is profitable as value is positive.	the net present
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IR	IRR Example				
	Project (Investment) Option	Year 0	Year 1	IRR	
	Project A	(\$100,000)	\$130,000	30%	
	Project B	(\$200,000)	\$240,000	20%	
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IRR versus NPV



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If:

• the cost of capital is 10% per year.

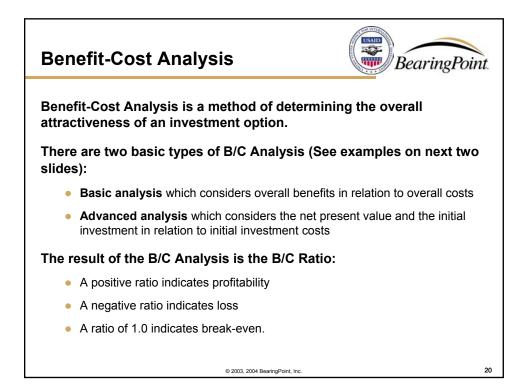
Project Options	Year 0	Year 1	IRR	NPV
Α	(\$100,000)	\$130,000	30%	\$18,181.81
В	(\$200,000)	\$240,000	20%	\$18,181.81

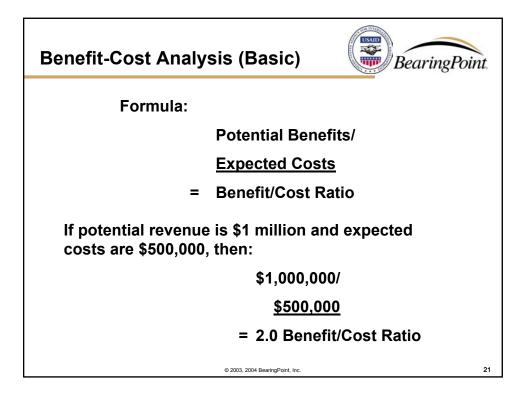
Then:

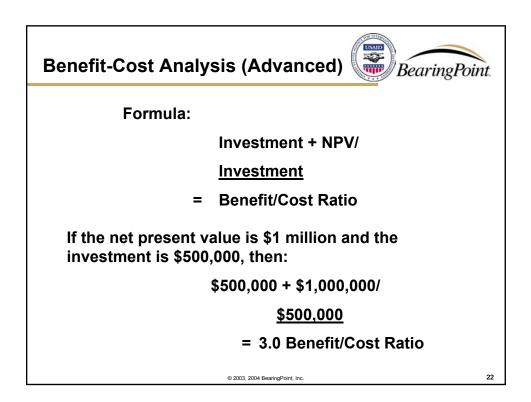
- Differential cash flow (Project B NPV Project A NPV) is zero.
- If the overall IRR > the cost of capital choose the larger project: Project B.
- If the overall NPV > 0 choose the larger project: Project B.

Thus: Choose Project B over Project A.

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B/C Analysis (Pro and Con)



Advantages of B/C Analysis

- Quantifies the overall ratio of benefits to costs of an investments overtime.
- Can consider the value of money over time (discount cash flow).
- Provides data for risk analysis for an investment.
- Allows a portfolio of investment options to be rank order by highest to lowest Benefit-Cost Ratio.

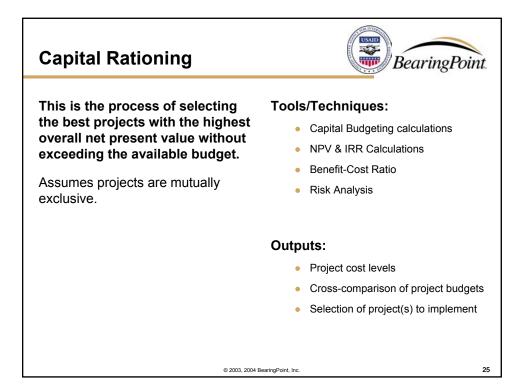
Disadvantages of B/C Analysis

- Is dimensionless as the B/C Ratio (by itself) does not relate to actual monetary figures.
- Does not consider other analysis such as investment payback and revenue direction (increasing, declining, constant)
- Only indicates the overall monetary benefits and costs of an investment over time (positive, negative or neutral).
- Requires assumptions of future benefits and costs that may not be accurate.

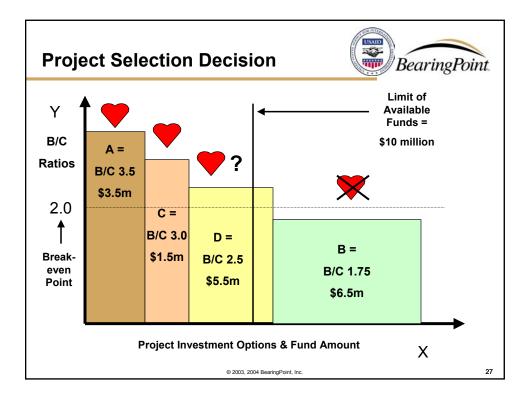
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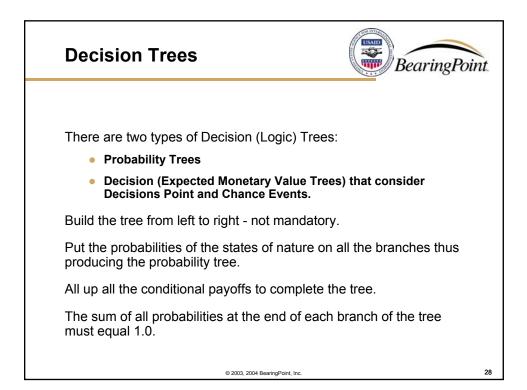
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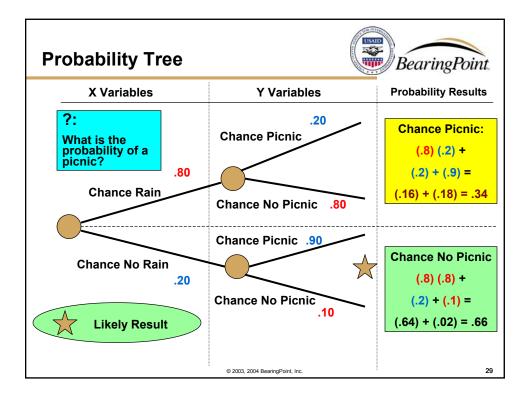
Capital Rationing

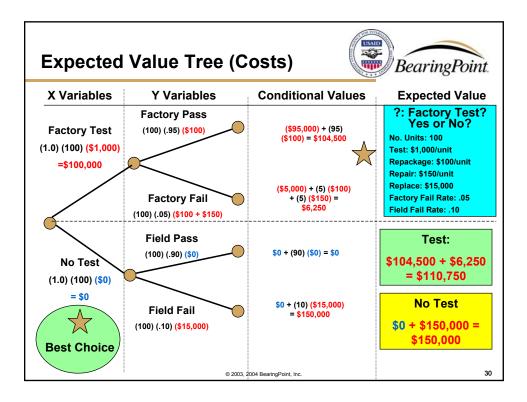


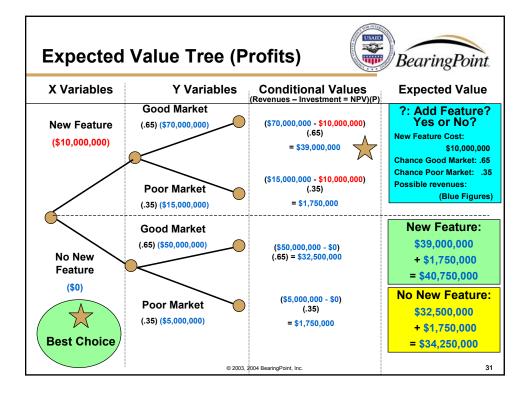
Project	Project Options				
	Project Options	Potential Revenues	Expected Costs	B/C Ratio	
	A	\$12.25 million	\$3.5 million	3.5	
	В	\$11.375 million	\$6.5 million	1.75	
	С	\$4.5 million	\$1.5 million	3.0	
	D	\$13.75 million	\$5.5 million	2.5	
					•
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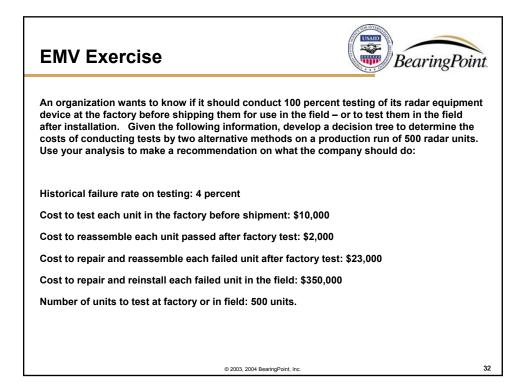








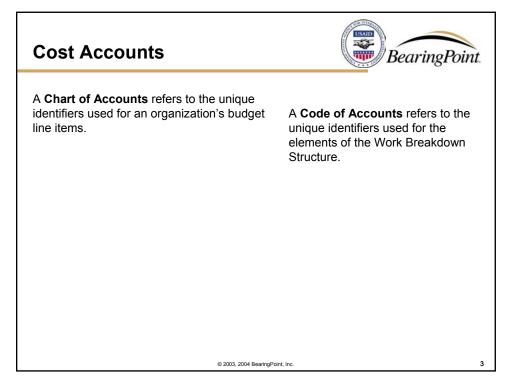


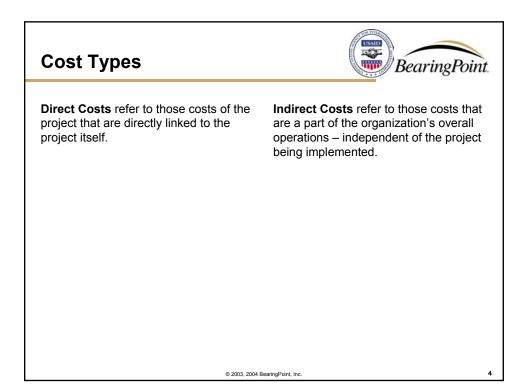


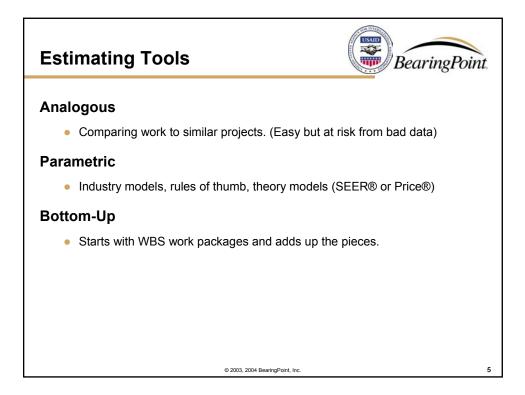


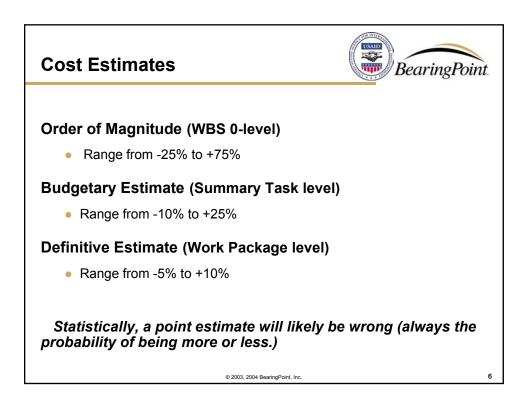


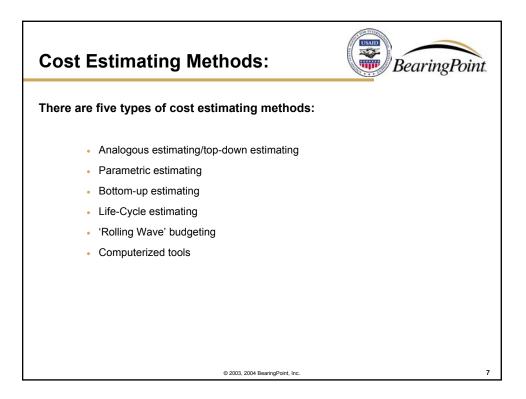


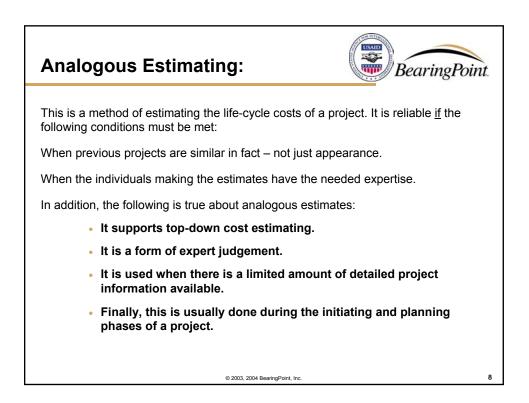


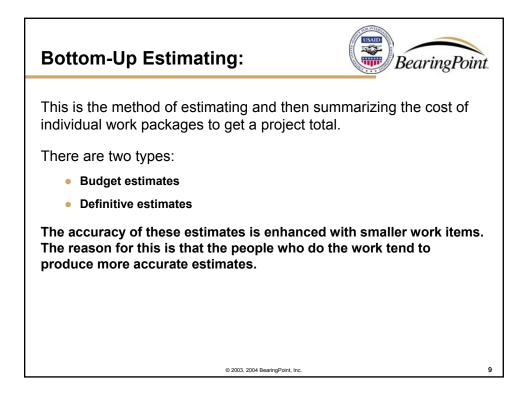


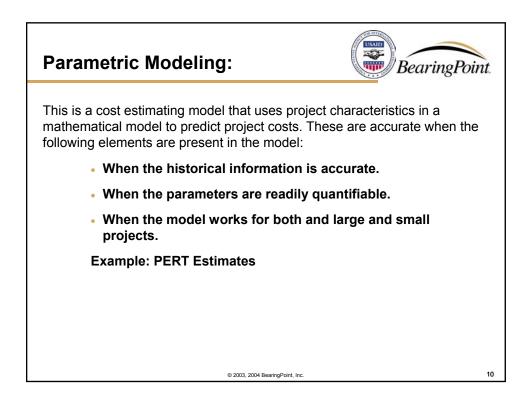


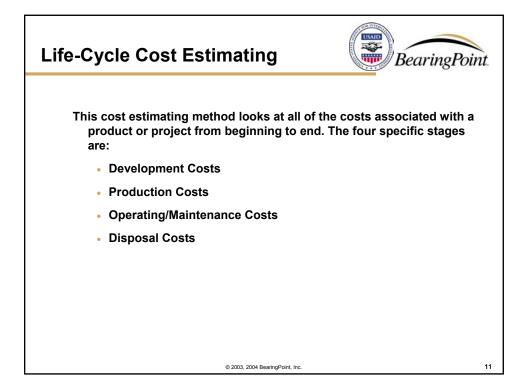


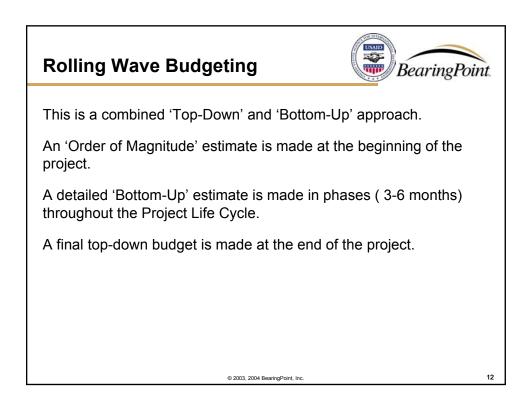














- Foreman (5 people x \$100 hour x 200 hours)
- Masons (25 people x \$50 hour x 500 hours)
- Carpenters (50 people x \$50 hour x 400 hours)
- Drivers (10 people x \$40 hour x 300 hours)
- Supplies(\$1,000,000 lump sum)
- Equipment (\$500,000 lump sum for various items)

Fringe Benefits is 15% of labor inputs Administrative Overhead is 10% of all Inputs and Benefits What is the total cost of this project? What are the loading rates? Labor? S & E? Overall?

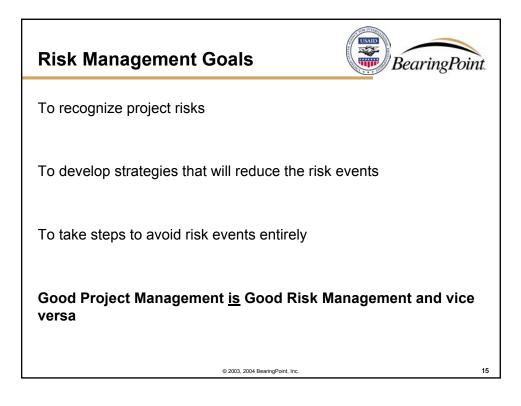
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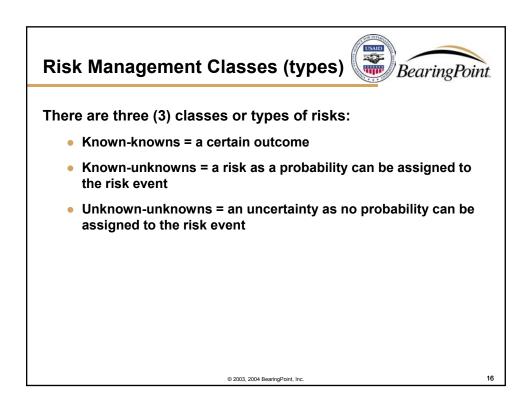
BearingPoint.

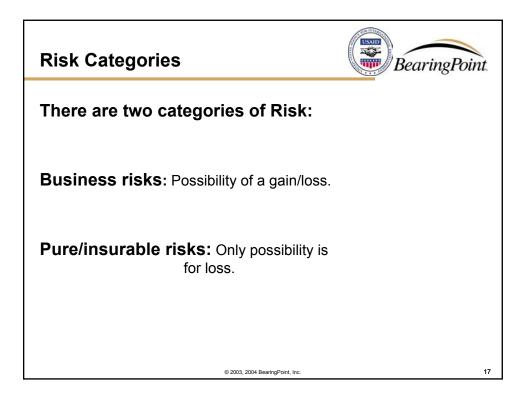
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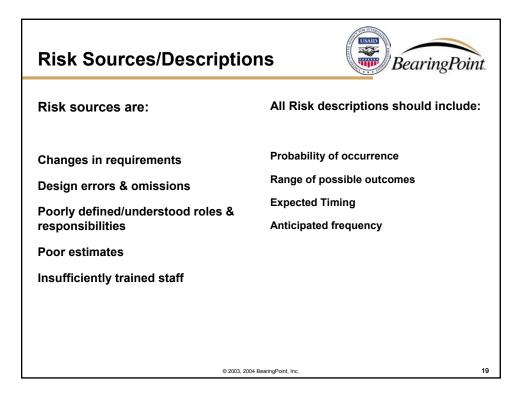








Risk Attributes/Dimensions				
Risk Attributes:	Risk Dimensions:			
Risk Event Risk Probability Amount at Stake Risk Event Status – probability x Amount at stake	Quality - most important to the customer Cost Schedule Procurement			
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Risk/Uncertainty in the PLC						
Risk	< & Unce	rtainty Wit	hin the Pi	roject Life	e Cycle	
	Initiating	Planning	Executing	Controlling	Close-out	
Risk			High		High	
Uncertainty	High	Decreasing	Decreasing	Decreasing	Lowest	
Amount at Stake	Lowest	Increasing	Increasing	Increasing	Highest	
		@ 2003_20	004 BearingPoint, Inc.			

Analogous Estimating:



This is a method of estimating the life-cycle costs of a project. It is reliable \underline{if} the following conditions must be met:

When previous projects are similar in fact – not just appearance.

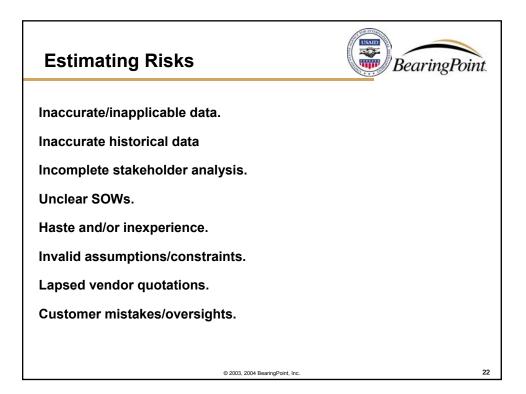
When the individuals making the estimates have the needed expertise.

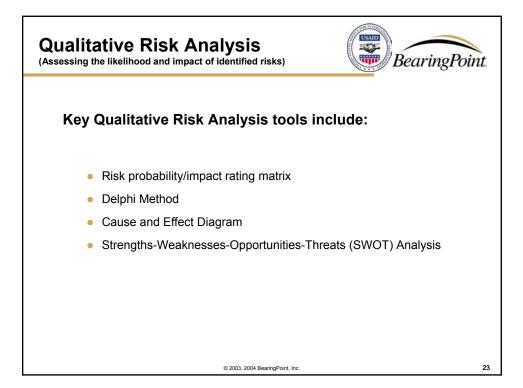
In addition, the following is true about analogous estimates:

- It supports top-down cost estimating.
- It is a form of expert judgement.
- It is used when there is a limited amount of detailed project information available.
- Finally, this is usually done during the initiating and planning phases of a project.

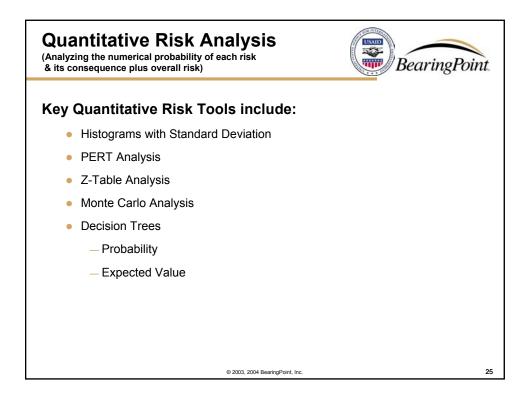


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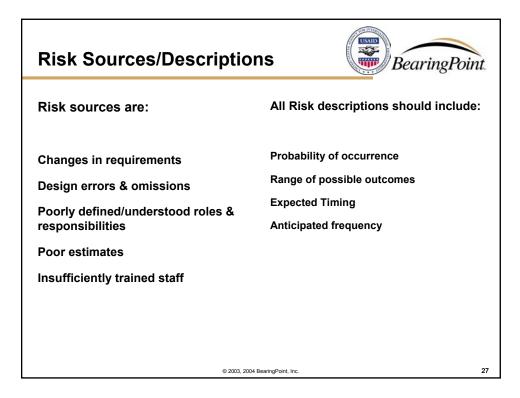




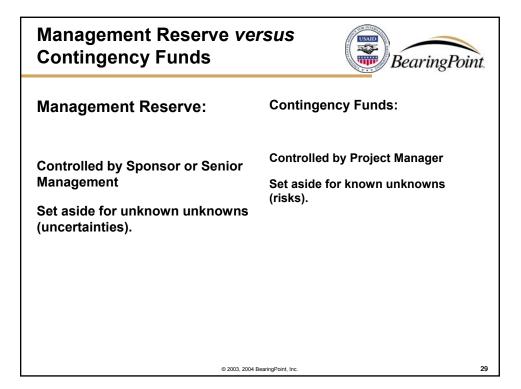
Ris	k Impact Matrix		BearingPoir	nt.		
Р	High Probability	High Probability	High Probability			
R O B	Low Impact	Medium Impact	High Impact			
A	Medium Probability	Medium Probability	Medium Probability			
B	Low Impact	Medium Impact	High Impact			
L	Low Probability	Low Probability	Low Probability			
Ť	Low Impact	Medium Impact	High Impact			
Y			(Catastrophic)			
	ΙΜΡΑCΤ					
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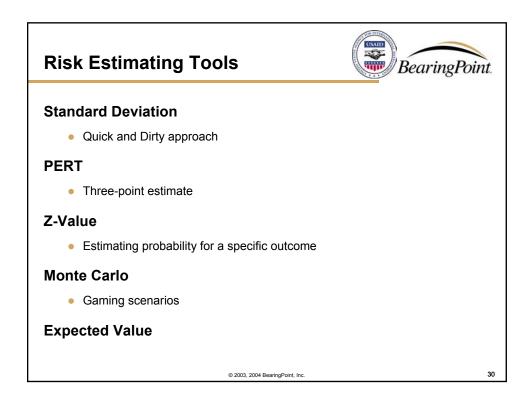


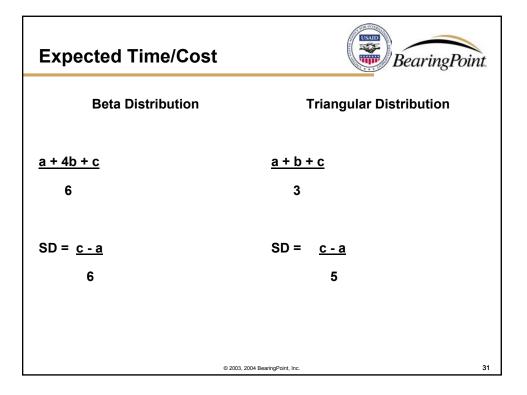
Risk Attributes/Dimensi	ons BearingPoint
Risk Attributes:	Risk Dimensions:
Risk Event Risk Probability Amount at Stake Risk Event Status – probability x Amount at stake	Quality - most important to the customer Cost Schedule Procurement
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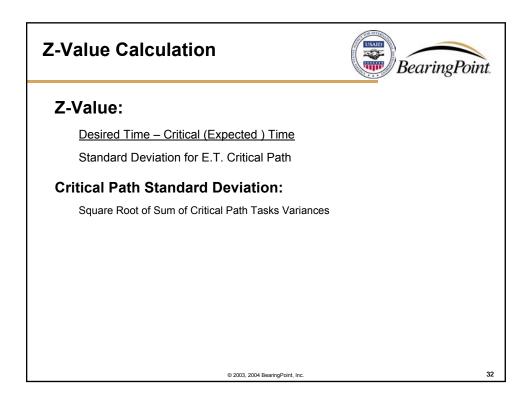


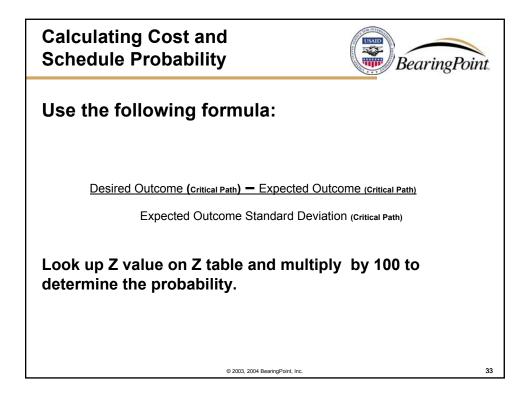
Risk Response Strategi	es/Tools
Strategies:	Tools to use:
Avoidance Reduction Acceptance (Retention) Risk Deflection (Transfer)	Insurance Warrantees Guarantees Performance Bonds Payment Bonds Sub-contractors
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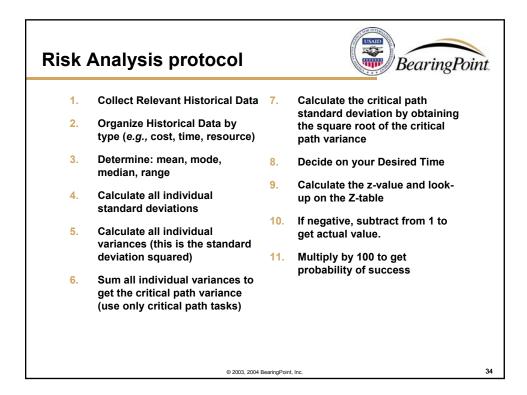






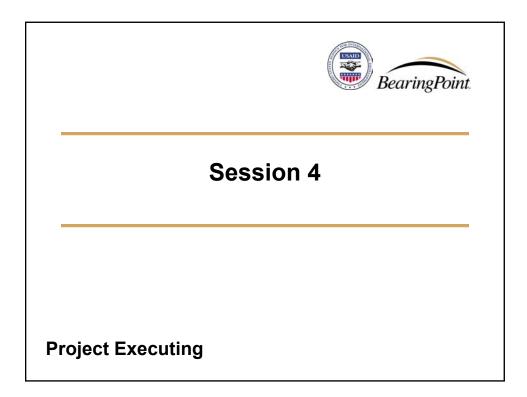


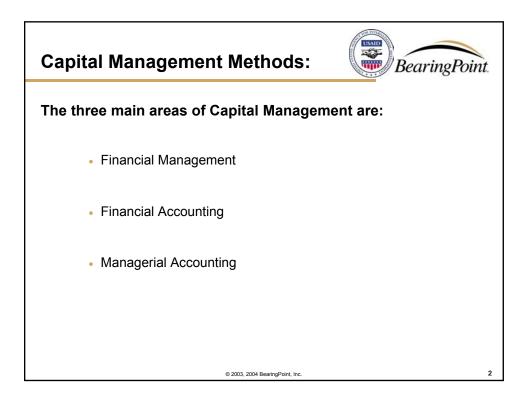


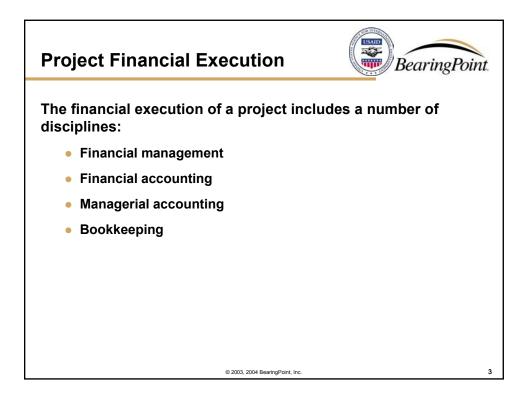


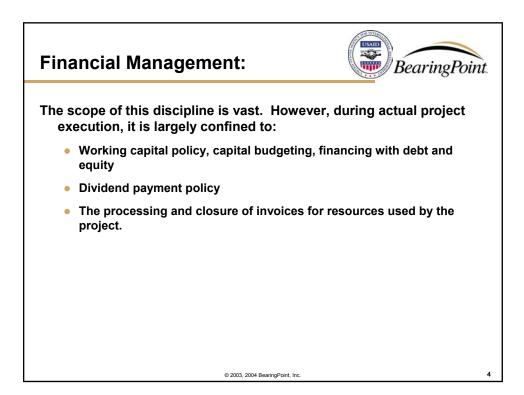
Risk/U	ncerta	inty ii	n the P	PLC	Ć	Be	aringPa	pint.
	Risk	& Uncert	ainty With Planning	in the Pro Executing High	Dject Life Controlling	Cycle Close-out High		
	Uncertainty	High	Decreasing	Decreasing	Decreasing	Lowest		
	Amount at Stake	Lowest	Increasing	Increasing	Increasing	Highest		
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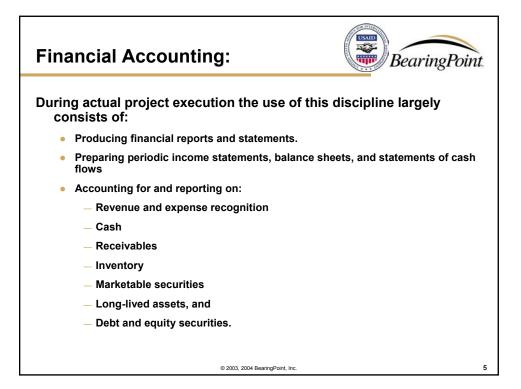


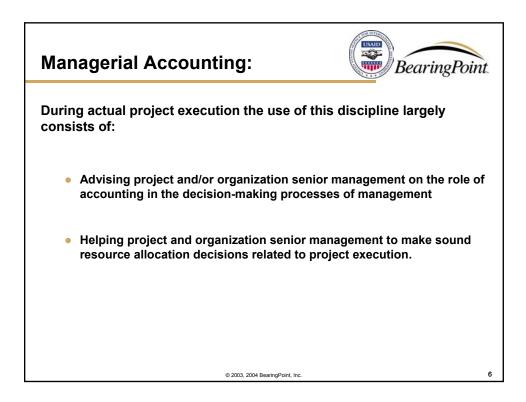




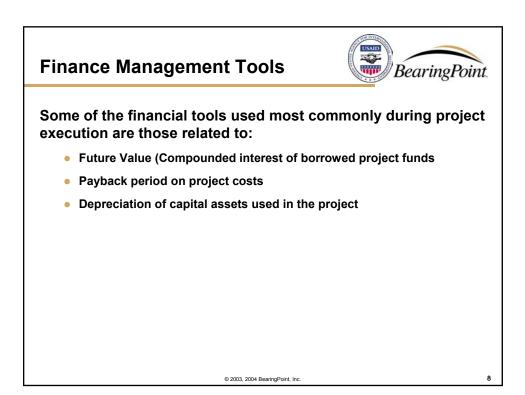






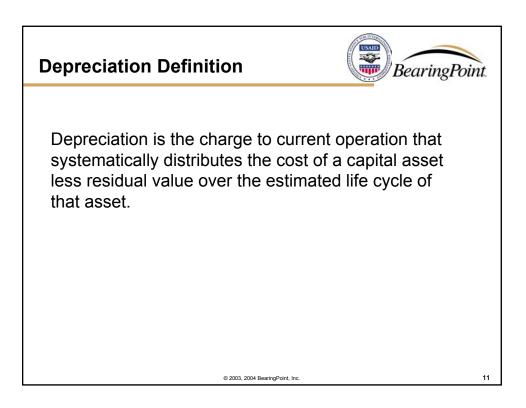


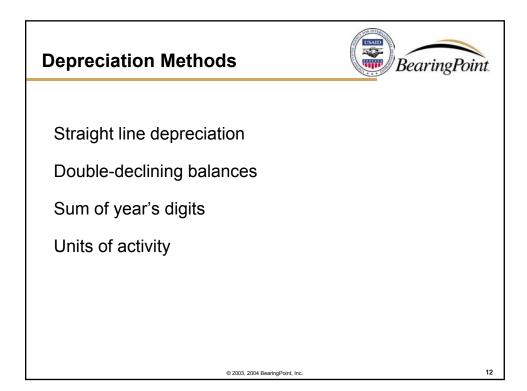
Loan Payments (Compound Interest)			BearingPoint
	<u>Principal</u>	<u>Interest (5%/yr)</u>	Total
•	\$ 100,000	\$ 5,000	\$105,000
•	\$ 105,000	\$ 5,250	\$110,250
•	\$ 110,250	\$ 5,512.50	\$115,762.50
•	\$ 115,762.50	\$ 5,788.125	\$ <u>121,550.625</u>
•	Total cost - Principa	al = Total interest paid.	
•	\$ 121,550.625 - \$ 10	0,000 = \$ 21,550.625	
•	Thus, the total intereating after four years.	st paid by the company is \$ 21	,550.625 when (if) it pays back its loan
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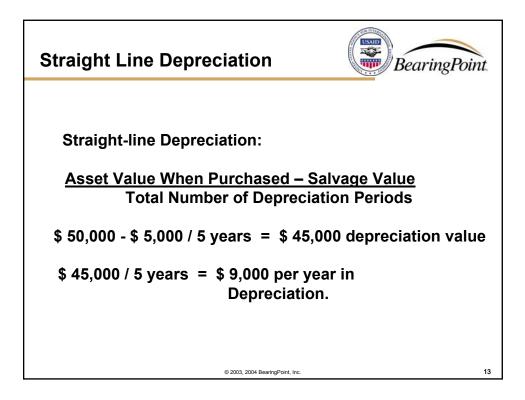


Pay Back Period		BearingPoint.				
Loan+Interest	<u>Revenues</u>	Balance				
\$ 105,000	\$ 10,000	(\$95,000)				
\$ 110,250	\$ 55,000	(\$55,250)				
\$ 115,762.50	\$ 120,000	0 (After 5.5 months)				
If the revenue flow is realized, the company can payback its investment/loan (with interest) after 2 years and 5.5 months.						
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Stra	ight line D	epreciatio	ı	Be	aringPoint
Year No.	Net Book Value Year Start	Remaining Depreciation at Year Start	Yearly Depreciation Amount	Net Book Value Year End	Accrued Depreciation at Year End
1.	\$50,000 (Acquisition Cost)	\$45,000	\$9,000	\$41,000	\$9,000
2.	\$41,000	\$36,000	\$9,000	\$32,000	\$18,000
3.	\$32,000	\$27,000	\$9,000	\$23,000	\$27,000
4.	\$23,000	\$18,000	\$9,000	\$14,000	\$36,000
5.	\$14,000	\$9,000	\$9,000	\$5,000	\$45,000
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Double-Declining Balance



1.	Start \$50,000	Rate	Amount	Year End	at Year End
(Ac	quisition Cost)	40%	\$20,000	\$30,000	\$20,000
2.	\$30,000	40%	\$12,000	\$18,000	\$32,000
3.	\$18,000	40%	\$7,200	\$10,800	\$39,200
4.	\$10,800	40%	\$4,400	\$6,400	\$43,600
5.	\$6,400	21%	\$1,400	\$5,000	\$45,000

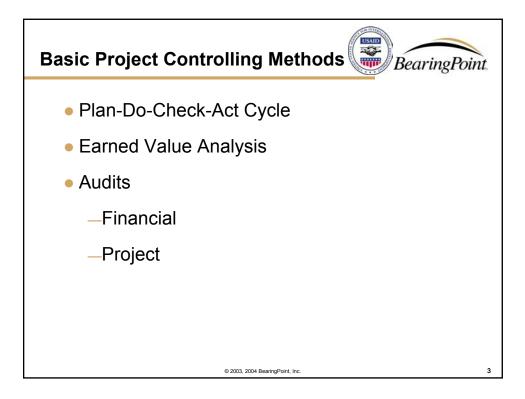
				BearingPoin
Year No.	Acquisition Cost (minus Salvage value)	Remaining Life in Years	Fraction = x/15	Depreciation Charg for the year = Salvage (Fraction)
1.	\$ 45,000	5	(5/15) or (.33)	\$45,000 (.33) = \$15,000
2.	\$ 45,000	4	(4/15) or (.26)	\$45,000 (.26) = \$12,000
3.	\$ 45,000	3	(3/15) or (.20)	\$45,000 (.20) = \$9,000
4.	\$ 45,000	2	(2/15) or (.13)	\$45,000 (.13) = 6,000
5.	\$ 45,000	1	(1/15) or (.06)	\$45,000 (.06) = 3,000

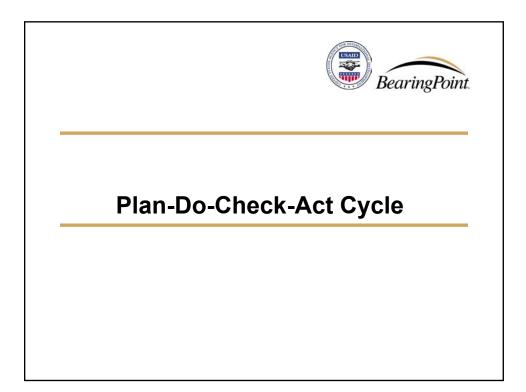
Units of Activity	BearingPoint
Calculate depreciation rate on the use of t \$45,000/100,000 miles \$.45 per mile).	he vehicle, (<i>e.g</i> .
Calculate total mileage in a year to determ depreciation for that tax year.	ine the actual annual
Example: If in Year 1 the vehicle is driven 10,000 mil amount for that year is \$4,500 or (10,000) (· •
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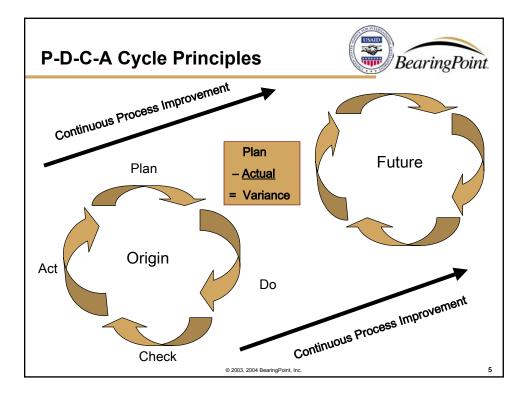


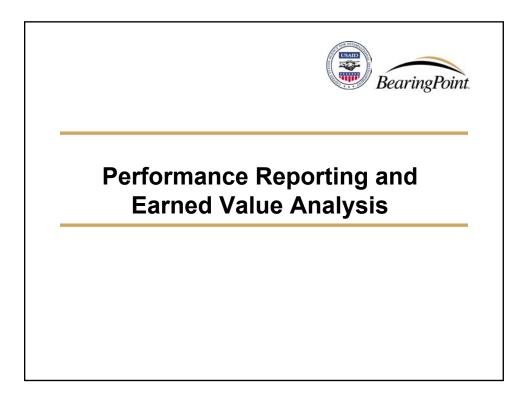


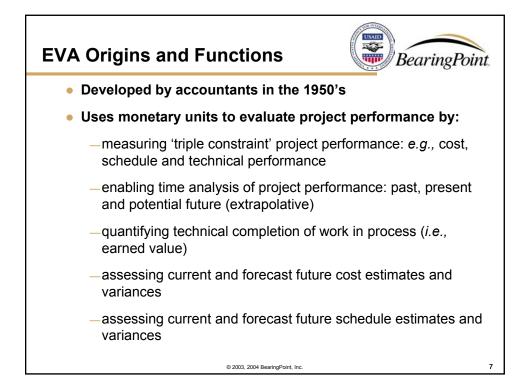


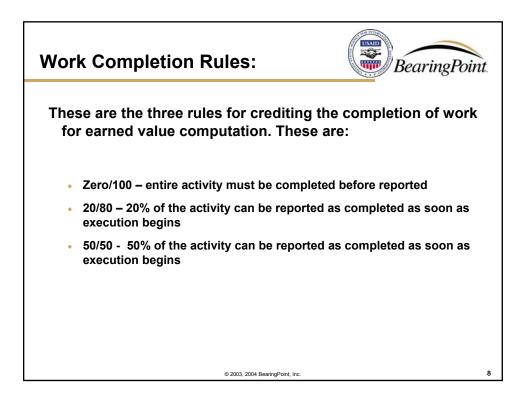




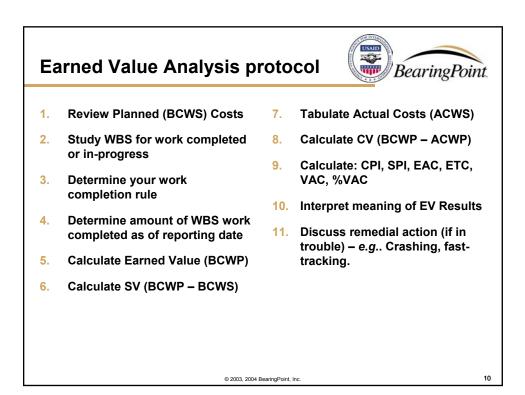


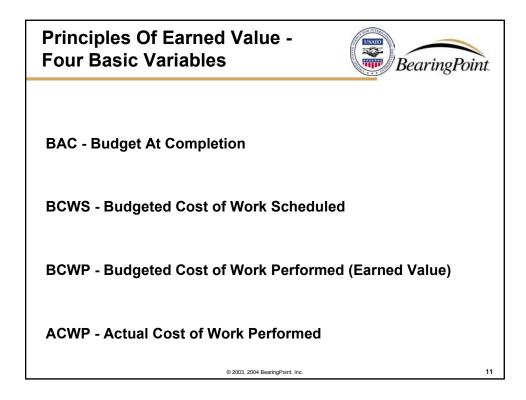


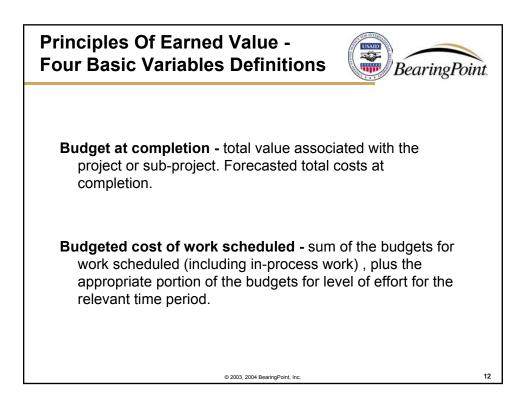


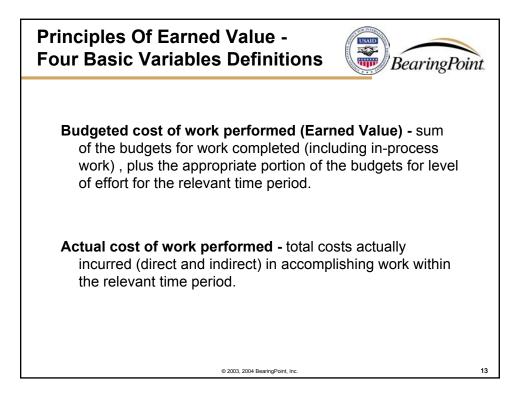


All Earned Valu	e Equations	int.
BCWP = Earned Value		
BCWS = Schedule Performance	e Measurement Baseline	
BAC = Sum of all BCWS alloc	cated to the project <u>or</u> the project Cost Performance Measurement Base	line.
CV = BCWP – ACWP	CV% = CV/BCWP	
SV = BCWP – BCWS	SV% = SV/BCWS	
CPI = BCWP/ACWP	SPI = BCWP/BCWS	
EAC = BAC/CPI	ETC = EAC – ACWP	
VAC = BAC – EAC	%VAC = VAC/BAC	
Cum. CPI = <u>∑BCWP</u>		
ΣΑСWP		
	© 2003, 2004 BearingPoint, Inc.	9

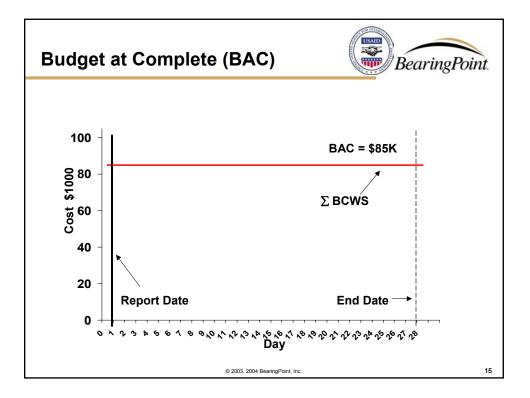




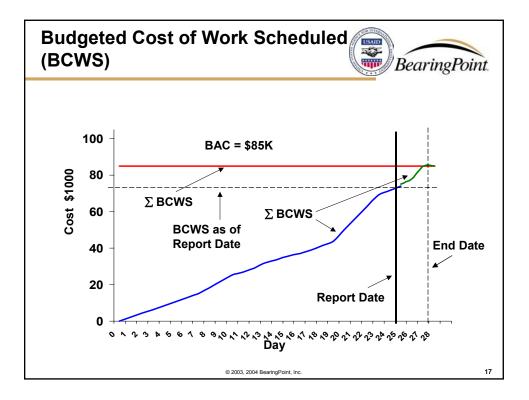




Idget at Completion (BAC)										Poi
Planned					ual	Report	ľ			
Task	BAC	Start	Finish	Start	Finish	BCWS	BCWP	ACWP		
1.1.1	10.0	7	10							
1.1.2.	5.0	10	13							
1.1.3.	1.0	13	16							
1.1.4.	1.0	11	13							
1.2.1.	15.0	1	7							
1.2.2	1.0	7	13							
1.2.3.	1.0	13	16							
1.3	37	16	25							
1.3.1	2.0	16	17							
1.4	11	25	28							
	\$85K*					0.0	0.0	0.0		
	R	*Include	s all of Ta		1.4 BearingPoint, Ir	nc.		•		

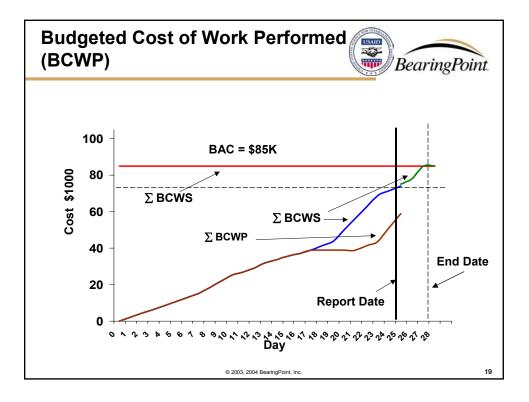


ıdget CWS	dgeted Cost of Work Scheduled BearingPoint										
	Planned Actual Report Date: End Day 25										
Task	BAC	Start	Finish	Start	Finish	BCWS	BCWP	ACWP			
1.1.1	10.0	7	10	7	10	10.0					
1.1.2	5.0	10	13	10	13	5.0					
1.1.3	4.0	13	16	13	16	4.0					
1.1.4	1.0	11	13	11	13	1.0					
1.2.1	15.0	1	7	1	7	15.0					
1.2.2	1.0	7	13	7	13	1.0					
1.2.3	1.0	13	16	13	16	1.0					
1.3	37	16	25	16		37					
1.3.1	2.0	16	17	16	17	2.0					
1.4	11	25	28								
	\$85K*					\$74K	\$0.0	\$0.0	ĺ		
		*Include	s all of Ta	sks 1.3 & 1					•		



Budgeted Cost of Work Performed	earingPoint

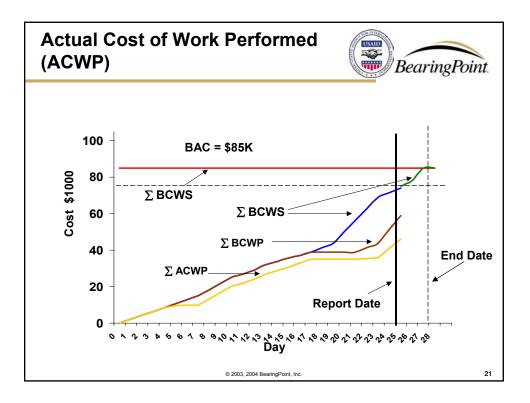
		Plan	ned	Act	ual	Report I	Date: En	d Day 25
Task	BAC	Start	Finish	Start	Finish	BCWS	BCWP	ACWP
1.1.1	10.0	7	10	7	10	10.0	10.0	
1.1.2	5.0	10	13	10	13	5.0	5.0	
1.1.3	4.0	13	16	13	16	4.0	4.0	
1.1.4	1.0	11	13	11	13	1.0	1.0	
1.2.1	15.0	1	7	1	7	15.0	15.0	
1.2.2	1.0	7	13	7	13	1.0	1.0	
1.2.3	1.0	13	16	13	16	1.0	1.0	
1.3	37	16	25	16		37	22	
1.3.1	2.0	16	17	16	17	2.0	2.0	
1.4	11	25	28					
	\$85K*					\$74K	\$59K	\$0.0
	J	*Include	s all of Ta	sks 1.3 & 1	.4	J		!
				© 2003, 2004 I	BearingPoint, In	c.		

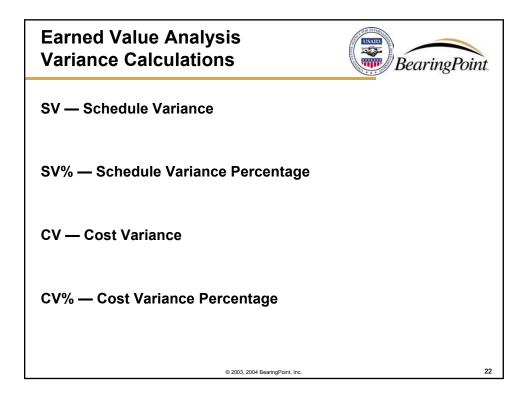


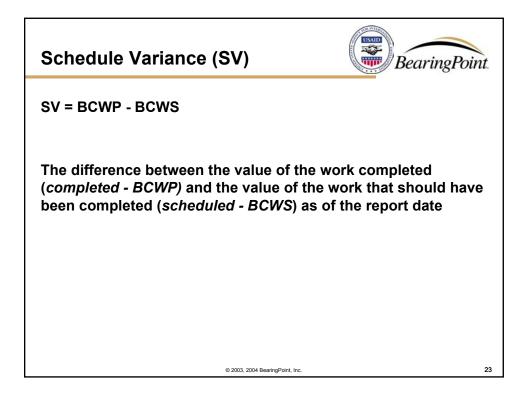
Actual Cost of Work Performed	
(ACWP)	

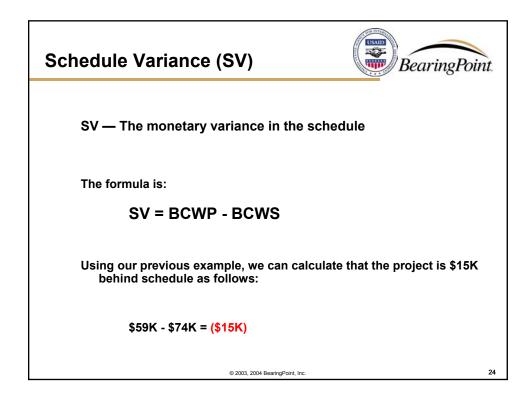


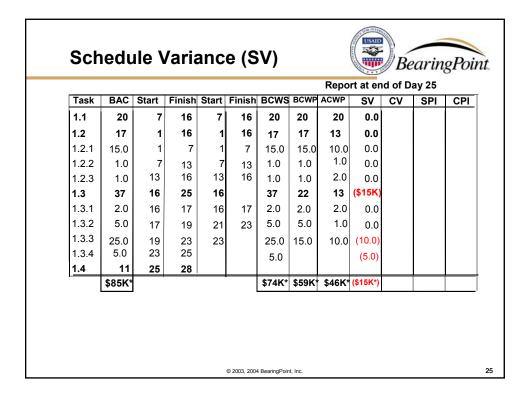
		Plan	ned	Act	lal	Report Date: End Day			
Task	BAC	Start	Finish	Start	Finish	BCWS	BCWP	ACWP	
1.1.1	10.0	7	10	7	10	10.0	10.0	10.0	
1.1.2	5.0	10	13	10	13	5.0	5.0	5.0	
1.1.3	4.0	13	16	13	16	4.0	4.0	4.0	
1.1.4	1.0	11	13	11	13	1.0	1.0	1.0	
1.2.1	15.0	1	7	1	7	15.0	15.0	10.0	
1.2.2	1.0	7	13	7	13	1.0	1.0	1.0	
1.2.3	1.0	13	16	13	16	1.0	1.0	2.0	
1.3	37	16	25	16		37	22	13	
1.3.1	2.0	16	17	16	17	2.0	2.0	2.0	
1.4	11	25	28						
	\$85K*					\$74K	\$59K	\$46K	
		*Include	s all of Ta	sks 1.3 & 1	.4				
				© 2003, 2004 I	BearingPoint, In	c.			

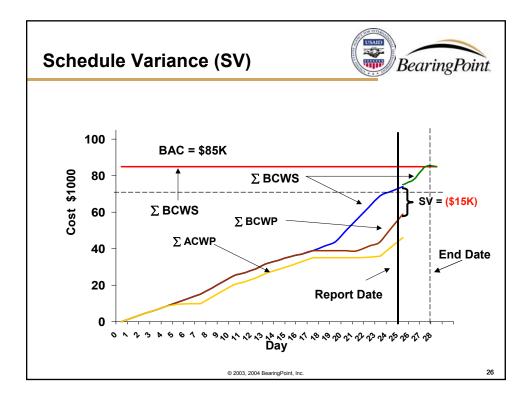


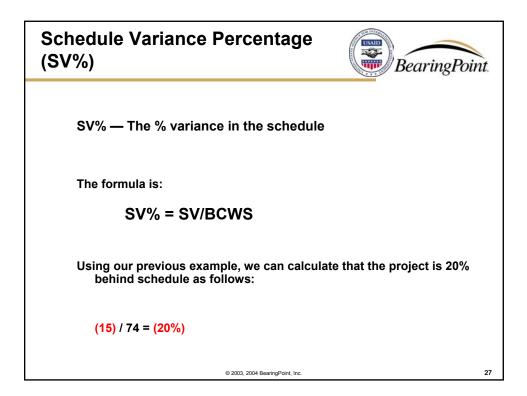


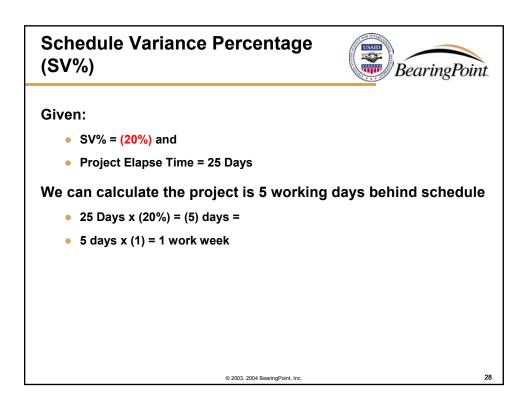


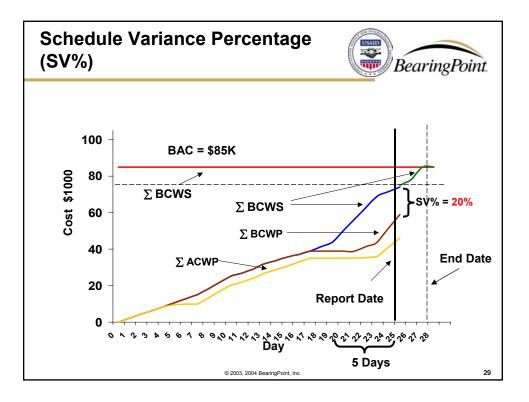


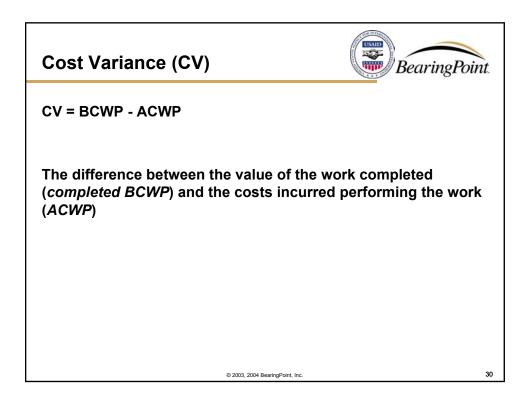


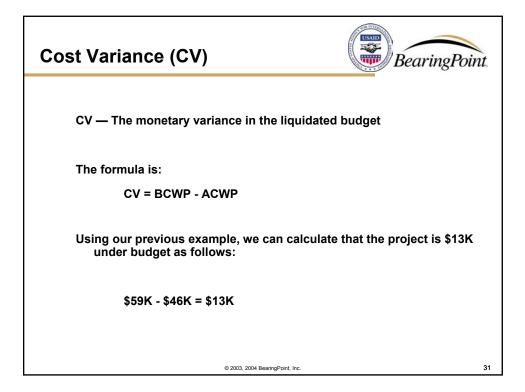




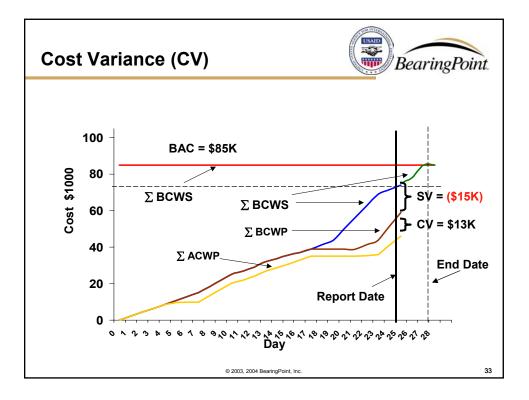


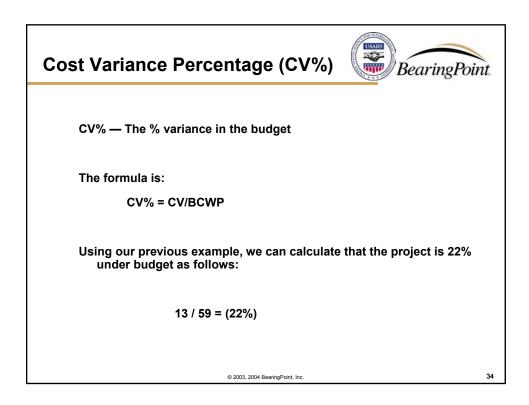


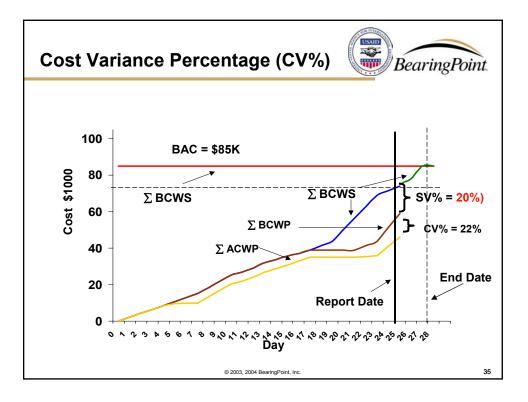




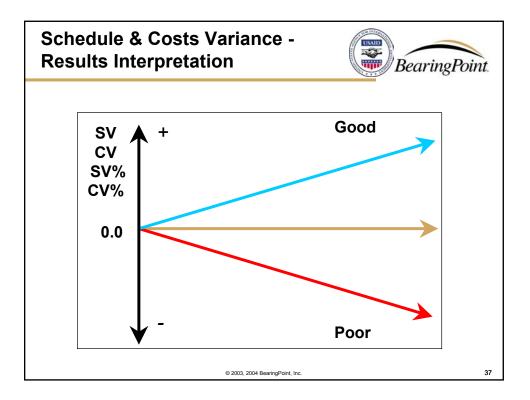
Task	BAC	Start	Finish	Start	Finish	BCWS	BCWP	ACWP	SV	CV	SPI	С
1.1	20	7	16	7	16	20	20	20	0.0	0.0		
1.2	17	1	16	1	16	17	17	13	0.0	4.0		
1.2.1	15.0	1	7	1	7	15.0	15.0	10.0	0.0	5.0		
1.2.2	1.0	7	13	7	13	1.0	1.0	1.0	0.0	0.0		
1.2.3	1.0	13	16	13	16	1.0	1.0	2.0	0.0	(1.0)		
1.3	37	16	25	16		37	22	13	(\$15K)	9.0		
1.3.1	2.0	16	17	16	17	2.0	2.0	2.0	0.0	0.0		
1.3.2	5.0	17	19	21	23	5.0	5.0	1.0	0.0	4.0		
1.3.3	25.0	19	23	23		25.0	15.0	10.0	(10.0)	5.0		
1.3.4	5.0	23	25			5.0			(5.0)			
1.4	11	25	28									
	\$85K*	1				\$74K*	\$59K	\$46K*	(\$15K*)	\$13K*		

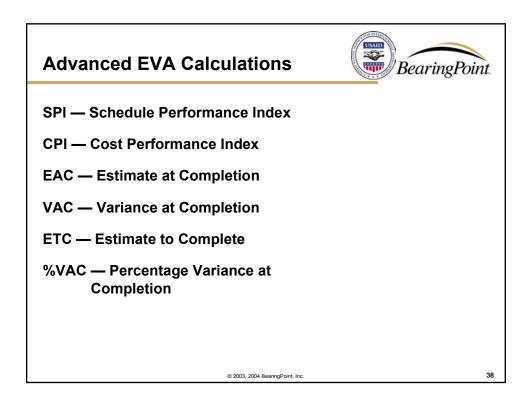


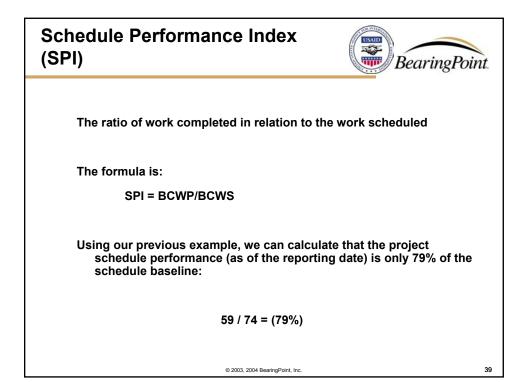




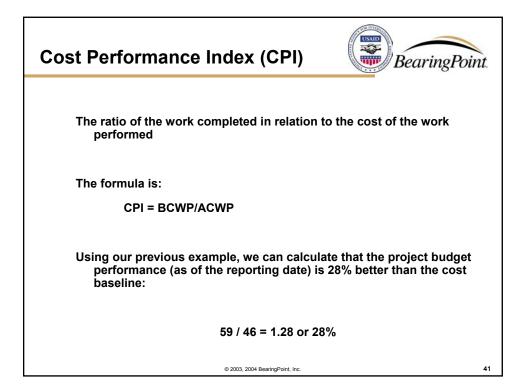
E	Earned Value Results										
	M Equat		OF EARNED VALUE R + (Positive)	ESULTS ON PROJE Zero (0)	CT DELIVERY - (Negative)						
	sv	(+0-)	Ahead schedule	On Time	Behind Schedule	ĺ					
	sv%	(+0-)	Ahead schedule	On Time	Behind Schedule						
	cv	(+0-)	Under Budget	On budget	Over Budget	-					
	cv%	(+0-)	Under Budget	On budget	Over Budget						
						-					
			© 2003, 2004 Be	earingPoint, Inc.		36					



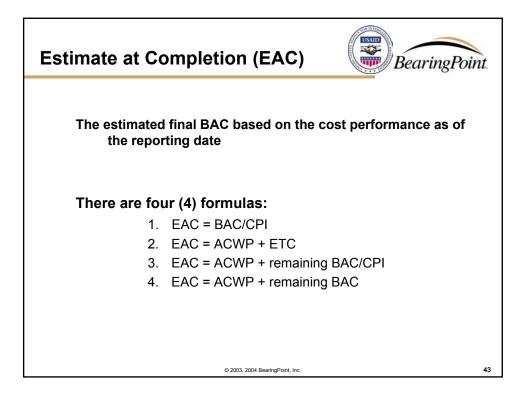


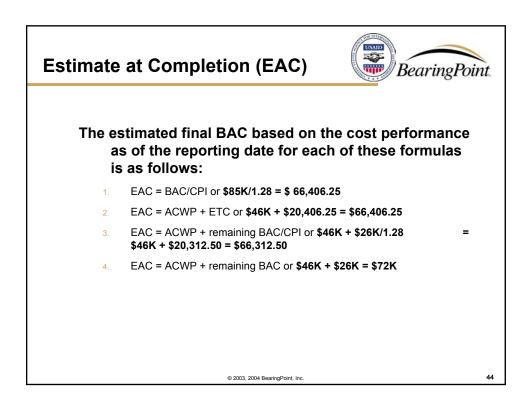


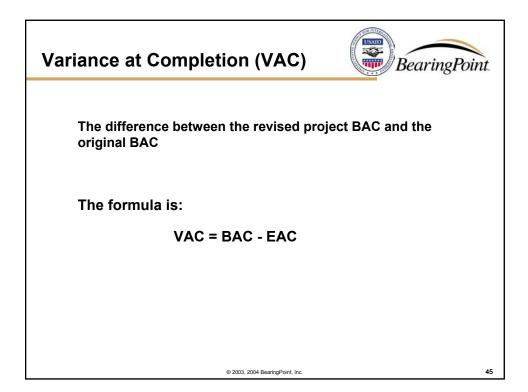
Task	BAC	Start	Finish	Start	Finish	BCWS	BCWP	•	SV	nd of Da	SPI	CF
1.1	20	7	16	7	16	20	20	20	0.0	0.0	1.00	
1.2	17	1	16	1	16	17	17	13	0.0	4.0	1.00	
1.2.1	15.0	1	7	1	7	15.0	15.0	10.0	0.0	5.0	1.00	
1.2.2	1.0	7	13	7	13	1.0	1.0	1.0	0.0	0.0	1.00	
1.2.3	1.0	13	16	13	16	1.0	1.0	2.0	0.0	(1.0)	1.00	
1.3	37	16	25	16		37	22	13	(\$15K)	9.0	(.59)	
1.3.1	2.0	16	17	16	17	2.0	2.0	2.0	0.0	0.0	1.00	
1.3.2	5.0	17	19	21	23	5.0	5.0	1.0	0.0	4.0	1.00	
1.3.3	25.0	19	23	23		25.0	15.0	10.0	(10.0)	5.0	(.60)	
1.3.4	5.0	23	25			5.0			(5.0)			
1.4	11	25	28									
-	\$85K					\$74K	\$59K	\$46K	(\$15K)	\$13K	(0.79)	

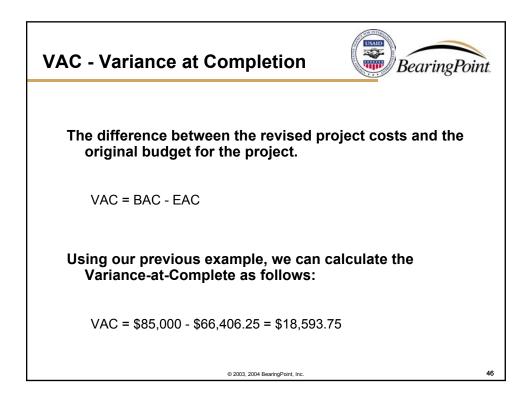


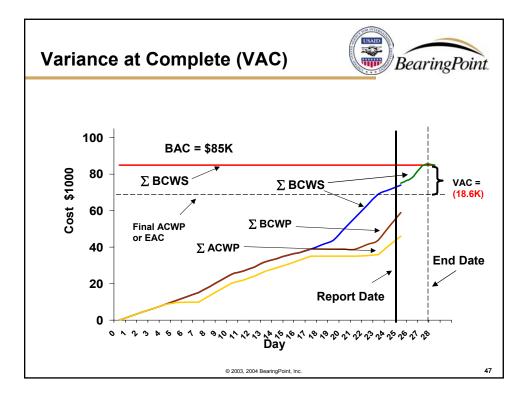
Task	BAC	Start	Finish	Start	Finish	BCWS	BCWP		SV	nd of Da	SPI	СР
1.1	20	7	16	7	16	20	20	20	0.0	0.0	1.00	1.0
1.2	17	1	16	1	16	17	17	13	0.0	4.0	1.00	1.3
1.2.1	15.0	1	7	1	7	15.0	15.0	10.0	0.0	5.0	1.00	1.5
1.2.2	1.0	7	13	7	13	1.0	1.0	1.0	0.0	0.0	1.00	1.0
1.2.3	1.0	13	16	13	16	1.0	1.0	2.0	0.0	(1.0)	1.00	(.50
1.3	37	16	25	16		37	22	13	(\$15K)	9.0	(.59)	1.6
1.3.1	2.0	16	17	16	17	2.0	2.0	2.0	0.0	0.0	1.00	1.0
1.3.2	5.0	17	19	21	23	5.0	5.0	1.0	0.0	4.0	1.00	5.0
1.3.3	25.0	19	23	23		25.0	15.0	10.0	(10.0)	5.0	(.60)	1.5
1.3.4	5.0	23	25			5.0			(5.0)			
1.4	11	25	28									
	\$85K				•	\$74K	\$59K	\$46K	(\$15K)	\$13K	(0.79)	1.2

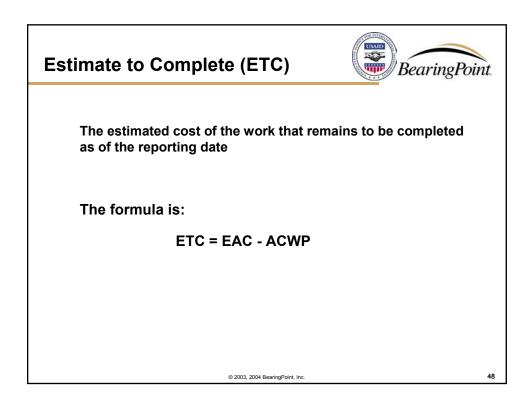


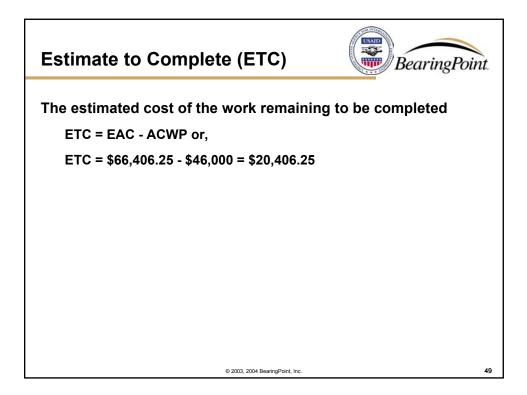


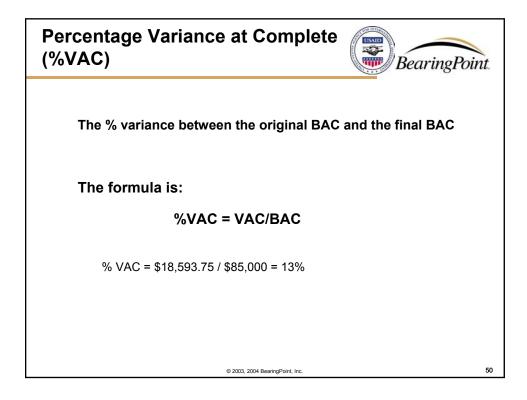


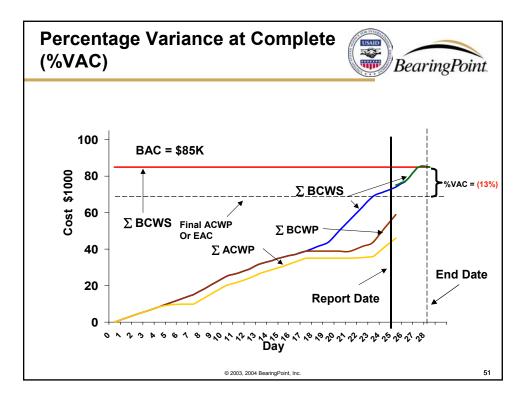




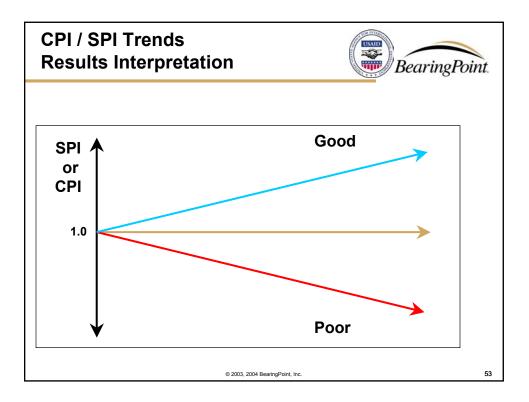


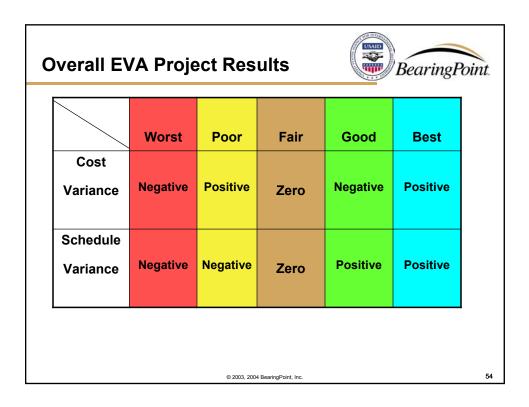




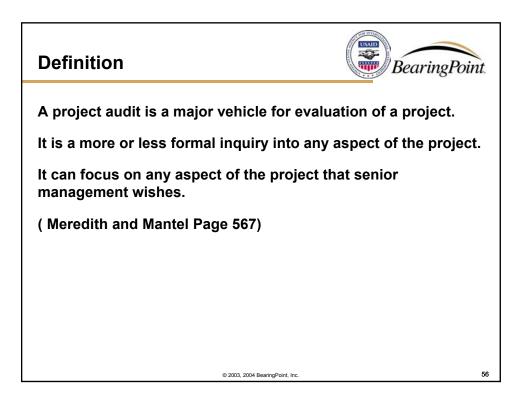


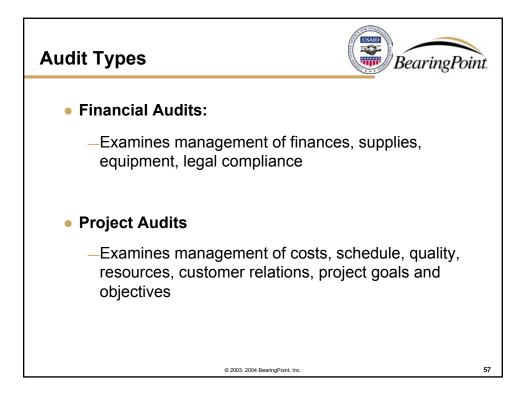
Earned Value Results								
	MEANING C	OF EARNED VALUE F	RESULTS ON PROJ					
Equa	ation	>1	= 1	<1				
SPI	(>=<1)	Ahead schedule	On Time	Behind Schedule				
СРІ	(>=<1)	Under Budget	On budget	Over Budget				
		© 2003, 2004 Bearin	gPoint, Inc.	52				



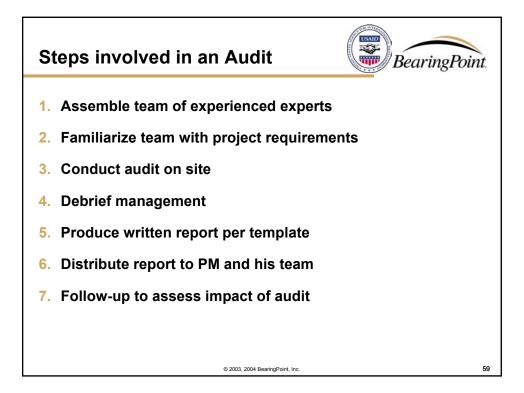


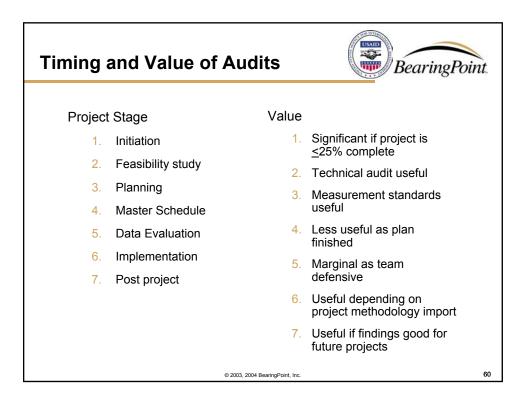


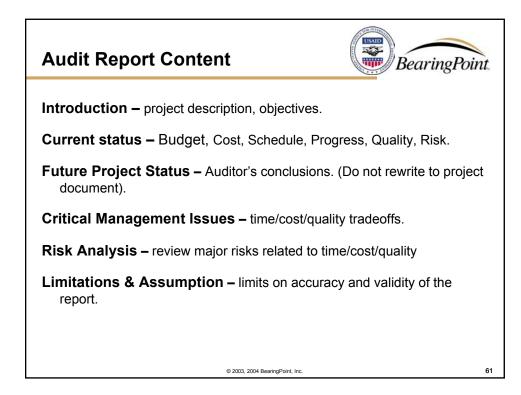




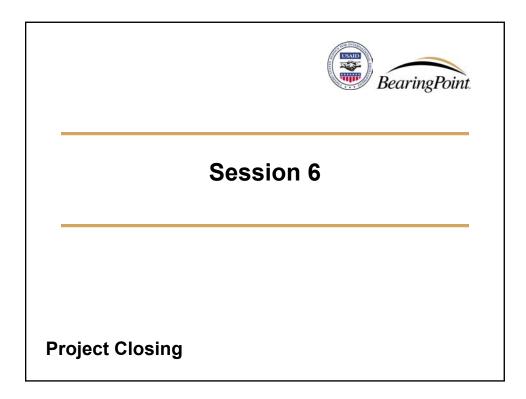


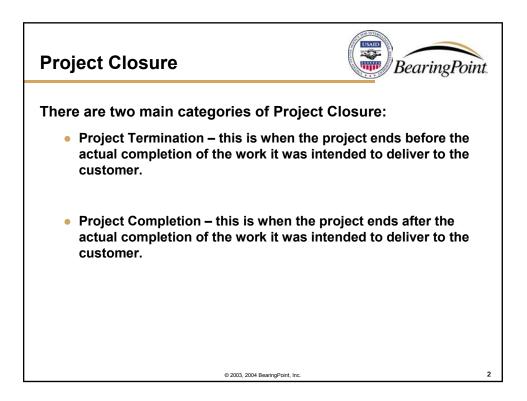




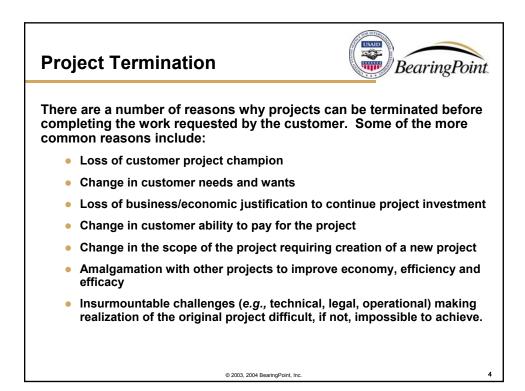
















Sunk Costs	BearingPoint
Sunk Costs refer to those actual costs alr company. These represent liquidated fun	•
The financial accounting and managemen Costs are not considered when evaluating business investment or operation.	
When considering whether to begin, cont investment in a project, Sunk Costs (e.g., Performed) are not considered. Only anti are considered.	Actual Cost of Work

