Assignment No. 3:

Perform Monte Carlo Simulations Using @Risk

Team Burning
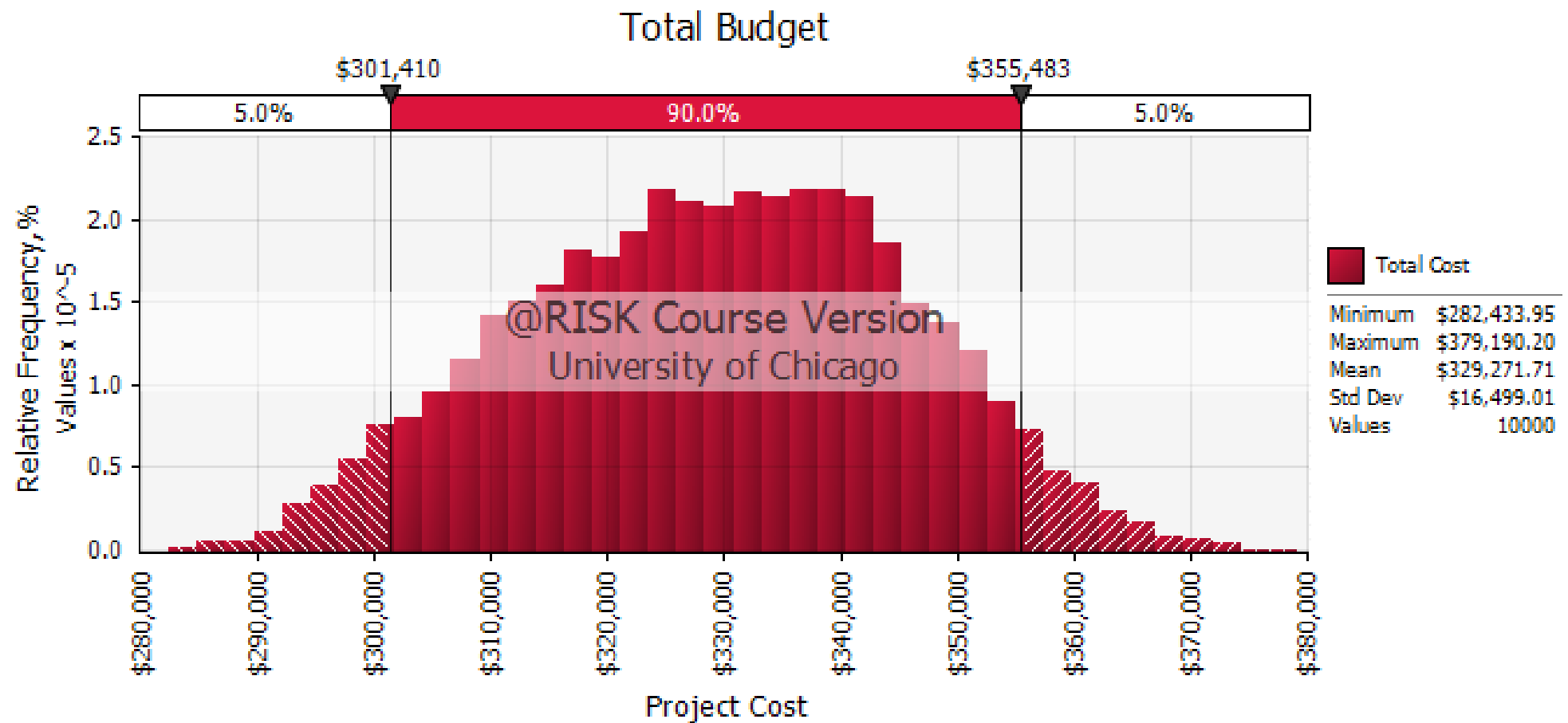
Summary of input information

Type	No.	Task Name	Distrbution Type	Minimum	Most likely	Maximum	Standard Deviation	Simulation
Base Cost	1	Kickoff Project/Develop Project Plan	No DIstrbution	-	$9,000	-	-	9000
	2	Monitor, Control & Manage Project	No DIstrbution	-	$38,370	-	-	42307.5
	3	Gather Requirements	Triangular	$8,100	$9,000	$10,800	-	9300
	4	Design Prototype	Normal	-	$24,000	-	$2,400	24000
	5	Validate Design with Customer	Triangular	$4,320	$4,800	$5,760	-	4960
	6	Build Prototype	Pert	$39,600	$44,000	$52,800	-	44733.33333
	7	Test Prototype	Pert	$8,640	$9,600	$11,520	-	9760
	8	Revise/Test Prototype	Pert	$13,860	$15,400	$18,480	-	15656.66667
	9	Finalize Design	Triangular	$12,960	$14,400	$17,280	-	14880
	10	Validate Design with Customer	Uniform	$4,320	$4,800	$5,280	-	4800
	11	Prepare Application	Triangular	$5,400	$6,000	$7,200	-	6200
	12	Submit Appliction	Triangular	$2,700	$3,000	$3,600	-	3100
	13	Receive Approval	No DIstrbution	-	$0	-	-	0
	14	Select Suppliers	Triangular	$6,750	$7,500	$9,000	-	7750
	15	Negotiate/Sign Agreements	Normal	-	$6,000	-	$600	6000
	16	Procure Equipment/Materials	Triangular	$46,620	$51,800	$62,160	-	53526.66667
	17	Ramp-up for Production	Triangular	$27,000	$30,000	$36,000	-	31000
	18	Perform Production Testing	Triangular	$12,150	$13,500	$16,200	-	13950
	19	Lanuch	Triangular	$2,700	$3,000	$3,600	-	3100

Base Cost $294,170

Type	No.	Event Name	Distrbution Type	Probability	Minimum	Most likely	Maximum	Simulation1	Simulation2
Event Cost	1	Poor requirements definition	Pert	60%	$18,000	$20,000	$24,000	1	20333.33333
	2	Regulatory hurdles	Triangular	50%	$9,000	$10,000	$12,000	0	10333.33333
	3	Unexpected problems with prototype	Triangular	40%	$9,000	$10,000	$12,000	0	10333.33333
	4	Supply chain disruptions	Triangular	30%	$9,000	$10,000	$12,000	0	10333.33333

Contingency Reserve $20,333   **Total Cost** $324,358

Probability distribution function chart

Cumulative distribution function chart