

Company A

Company A Return on Investment Analysis

Project Name: Client Poultry Processing Expansion
Project Location: Smithtown
Vendor: Company C Automation
ROI Completion Date:
Proposed Implementation:

Project Description:
Install and operate a conveyor system for preprocessed product

(Reference Attachments for Detailed Information)

General Description of Benefits:

- 1) Increased Safety
- 2) Increased Quality
- 3) Increased Productivity
- 4)
- 5)
- 6)
- 7)
- 8)

Initial Investment	\$ 1,600,000
Cost Savings (Average/Year)	\$ 511,617
Return on Investment (Average/Year)	32%
Return on Investment (7 Year Gross):	224%
Return on Investment (7 Year Discounted at 8%)	166%
Payback (Years)	3.15

$$\text{ROI} = \frac{\text{Cost Savings (Less Delta Variable)}}{\text{Original Investment}}$$

Manager Signature: _____

Manager Signature: _____

Company A Return on Investment Analysis

Cost Savings Summary												
Labor Hours	MHR/Unit			Hours Saved/Unit	Total Quantity	Unit	Man Hours Saved	Operator Rate	Total Savings			
	Status Quo	New Rate	Reduction						Annually			
<i>Install rollers 8 rollers/section</i>	320.000	- 128.000	= 192.000	192.0000	X	9 MHRS	= 1,728	\$ 50.00	= \$	86,400		
<i>Remove rollers 8 rollers/section</i>	320.000	- 128.000	= 192.000	192.0000	X	5 MHRS	= 960	\$ 50.00	= \$	48,000		
<i>Install Rings 4 rings/section</i>	96.000	- 64.000	= 32.000	32.0000	X	55 MHRS	= 1,760	\$ 50.00	= \$	88,000		
<i>Remove Rings 4 rings/section</i>	96.000	- 64.000	= 32.000	32.0000	X	35 MHRS	= 1,120	\$ 50.00	= \$	56,000		
<i>Vertical assembly (40hr/ea)</i>	40.000	- 20.000	= 20.000	20.0000	X	80 EA	= 1,600	\$ 50.00	= \$	80,000		
<i>Transportation mechanism & Repair (>120") (VERTICAL) (10%)</i>	0.400	- 0.360	= 0.040	0.0400	X	21,845 lbs	= 874	\$ 50.00	= \$	43,690		
<i>Roller/plank/spring 24-48"</i>	22.000	- 16.000	= 6.000	6.0000	X	219 EA	= 1,314	\$ 50.00	= \$	65,700		
<i>Roller/plank/spring >48-72</i>	30.000	- 24.000	= 6.000	6.0000	X	51 EA	= 306	\$ 50.00	= \$	15,300		
<i>Transportation mechanism & repair 24"-48" (10%)</i>	0.500	- 0.450	= 0.050	0.0500	X	8,467 lbs	= 423	\$ 50.00	= \$	21,168		
<i>Roller/plank repair 48"-72" (10%)</i>	0.400	- 0.360	= 0.040	0.0400	X	4,937 lbs	= 197	\$ 50.00	= \$	9,874		
		-	=	0.0000	X		=		= \$	-		
Total Estimated Labor Savings/Year										= \$ 514,132		

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Investment Summary

Investments	Year 0	Year 1	Year 2	Year 3
<i>Assembly mechanism + main control cabinet (+Install Sup</i>	\$1,261,898			
<i>Additional Forecasting Cost</i>	\$110,647			
<i>Equipment Installation & Rearrangement Equipment</i>	\$62,000			
<i>Spare Parts</i>	\$20,000			
<i>Maintenance</i>		\$8,000	\$8,000	
<i>Investment</i>				
<i>Investment</i>				
Total Costs (Above the Line)	\$1,454,545	\$8,000	\$8,000	\$0
Contingency (10%)	\$145,454.55	\$800.00	\$800.00	\$0.00
Total Costs (Below the Line)	\$1,600,000.00	\$8,800.00	\$8,800.00	\$0.00

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Cash Flow and ROI Statement								
BENEFIT DRIVERS	YEAR							
	0	1	2	3	4	5	6	7
Total Annual Cost Savings (Page 2)		\$514,132	\$514,132	\$514,132	\$514,132	\$514,132	\$514,132	\$514,132
Projected Volume		100%	100%	100%	100%	100%	100%	100%
Total benefits realized		\$514,131.50	\$514,131.50	\$514,131.50	\$514,131.50	\$514,131.50	\$514,131.50	\$514,131.50

Costs	Year 0	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7
Total	\$1,600,000	\$8,800	\$8,800	\$0	\$0	\$0	\$0	\$0

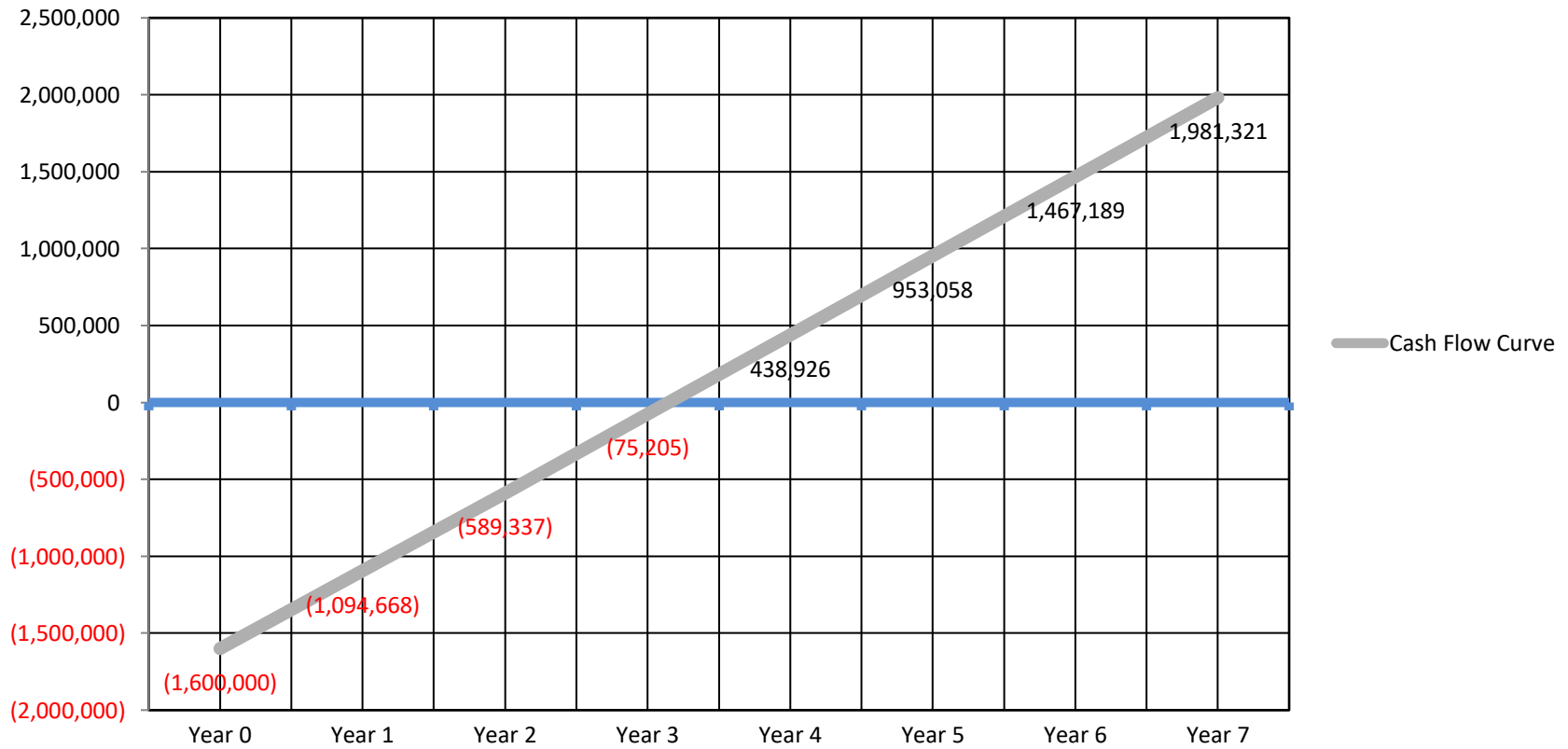
Benefits	Year 0	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7
Annual Cash Flow	(\$1,600,000)	\$505,332	\$505,332	\$514,132	\$514,132	\$514,132	\$514,132	\$514,132
Cumulative Cash Flow	(1,600,000)	(1,094,668)	(589,337)	(75,205)	438,926	953,058	1,467,189	1,981,321

Discounted benefit flow	Year 0	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7
Discounted Costs	\$1,600,000	\$8,148	\$7,545	\$0	\$0	\$0	\$0	\$0
Discounted Cost Savings Flow	0	476,048	440,785	408,134	377,902	349,909	323,990	299,991
Total Discounted Cost Savings Flow	(1,600,000)	467,900	433,240	408,134	377,902	349,909	323,990	299,991
Total Cumulative Discounted Cost Savings Flow	(1,600,000)	(1,132,100)	(698,860)	(290,726)	87,176	437,085	761,075	1,061,066

Investments	Year 0	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7
Total Investment (Page 3)	\$1,600,000	\$8,800	\$8,800	\$0	\$0	\$0	\$0	\$0

ROI measures								
Cost of capital	8%							
Net present value	\$1,061,066.12							
Internal Rate of Return (Cumulative Benefit Flow)	25%							
Internal Rate of Return (Cumulative Discounted Flow)	16%							
Return on Investment		30%	57%	82%	105%	127%	147%	166%
Payback (in years)	3.15							

Cash Flow Curve



Company A Return on Investment Analysis

#	✓	ROI Checklist
1	<input checked="" type="checkbox"/>	Identify Possible Applications for ROI Analysis
2	<input type="checkbox"/>	Research Application for ROI Analysis
3	<input type="checkbox"/>	Document Application (Photos,Current Method, Time Study)
4	<input type="checkbox"/>	Brainstorm and Identify Solutions (With Discipline Experts)
5	<input type="checkbox"/>	Identify Cost Saving Drivers for ROI (Rough Order of Magnitude)
6	<input type="checkbox"/>	Identify Investments and Ongoing Costs (Rough Order of Magnitude)
7	<input type="checkbox"/>	Projected Volume to be received from Upper Management (Default at 100% until altered by Management)
8	<input type="checkbox"/>	Produce Initial ROI Package
9	<input type="checkbox"/>	Review with Vice President
10	<input type="checkbox"/>	ROI Produces an Initial Go-No-Go
11	<input type="checkbox"/>	Firm Up Cost Savings Drivers
12	<input type="checkbox"/>	Firm Up Investments and Ongoing Costs
13	<input type="checkbox"/>	Produce Final ROI Package
14	<input type="checkbox"/>	Produce ROI Package and Review with Management
15	<input type="checkbox"/>	Receive Go-No-Go from Management
16	<input type="checkbox"/>	Move Forward with Implementation
17	<input type="checkbox"/>	Identify parties for Implementation and Coordinate responsibilities. Follow up with team and track progress.