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Upgraded data centers that are secure and efficient are vital for bringing our business into the future. With our current Tier I data center, we are limited in our capacity to continuously serve clients, which will cost us money in the long run. By investing in a Tier III data center now, we can achieve a 38% return on investment and keep a more continuous flow of data running through our center at all times with only 00.02% downtime.

A Tier III data center is more robust and efficient than a Tier I data center in almost every way. Tier III centers offer backup protection by fragmenting data and backing it up in multiple physical locations. If there were to be a failure of a server, the backup server would continue feeding clients the data they demand with no downtime. In addition, Tier III data centers use a more robust power structure, with power lines running from multiple locations. Backup battery systems are installed to ensure that even in the event of total power failure, the servers can continue running seamlessly. Finally, backup diesel fuel is stored on site to recharge the batteries for up to 48 hours, giving us plenty of time to resume normal operations.

Moving from a Tier 1 to a Tier III data center is also the right business decision for our company because, as shown in Figure 1, the initial investment of \$35 million is returned in under 3 years. By minimizing downtime to only 00.002%, our company can save over \$24 million dollars a year. This means that by the time the data center is due for additional upgrades, our company would benefit through a savings of over \$48.2 million dollars, a return on our \$35 million dollar investment of over 38%.

<b>Downtime cost for 1 year</b>	
<b>Tier I</b>	<b>Tier III</b>
00.33% downtime	00.02% downtime
\$25,670,304	\$1,555,776
<b>Savings of Tier III</b>	<b>\$24,114,528 per year</b>

<b>Tier III Data Center Upgrade</b>		
<b>Year</b>	<b>Cost</b>	<b>Benefit</b>
1	\$35,000,000	\$0
2	\$0	\$24,114,528
3	\$0	\$24,114,528
<b>Total</b>	<b>\$35,000,000</b>	<b>\$48,229,056</b>
<b>ROI</b>	<b>37.80%</b>	