By implementing a Tier III data center for our servers, we can generate a net benefit of $13.2 million over three years. Doing so will improve our availability by .31% and reduce our amount of downtime.

Our current Tier I data center provides no redundancy components or power redistribution. This means if we need to perform maintenance on our Tier I data center, then we must shut the whole system. With a Tier III data center, we will have the redundant components required to make sure we stay functioning while maintenance is going on. Additionally, our increased availability of 99.98%, compared to a Tier I's 99.67%, will reduce our downtime by 1,629 minutes per year. This decrease in downtime, as well as increased availability will cost us less and allow us to stay online for required maintenance.

The cost for implementing a "Tier III" data center will be $35 million and will save us a benefit of $48.2 million from downtime over a three-year period. This leaves us with a net benefit of $13.2 million over three years from the implementation of a Tier III data center.

References

Ovh. "Understanding Tier 3 and Tier 4." *Tier 3/Tier 4: Datacentre Classification - OVH*, www.ovh.com/world/dedicated-servers/understanding-t3-t4.xml.

"What Is a Tier III Data Center?" *Vault Networks*, 25 Mar. 2016, www.vaultnetworks.com/tier-iii-data-center/.

"Data Centre Tiering." *Data Centre Tiering | Tier 1, 2, 3 & 4 Data Centres | Tiering Info*, www.coreix.net/resources/data-centre-faqs/data-centre-tiering/.