

# CyberRisk ROI — Sample Report

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Sector	Retail
Asset value	\$100,000.00
Exposure Factor (EF)	100%
ARO	0.14
Selected DR Strategy	Warm Site

SLE	\$100,000.00
ALE (pre-controls)	\$14,000.00
ALE (post-controls)	\$7,000.00
Expected Annual Breach Cost	\$350,000.00

## Downtime & BCDR

Downtime loss (Cold)	\$200,000.00
Downtime loss (Selected)	\$50,000.00

Money saved by BCDR: \$150,000.00

## Controls & ROSI

Cost of controls (annual)	\$85,000.00
ROSI	88.0%

## Methodology

This economic model utilizes the Gordon-Loeb Framework for cybersecurity investment analysis.

ALE Calculation: Derived from standard quantitative risk assessment formulas ( $ALE = SLE \times ARO$ ) as defined in CS443 lecture materials.

BCDR Impact: Downtime costs are calculated based on recovery time objectives (RTO) for Hot/Warm/Cold sites.

## References

Gordon, L. A., & Loeb, M. P. (2002). "The economics of information security investment." ACM Transactions on Information and System Security (TISSEC).  
Verizon. (2024). "2024 Data Breach Investigations Report (DBIR)."  
IBM Security. (2024). "Cost of a Data Breach Report 2024."

## Notes

Sample report generated for class presentation.