

CyberRisk ROI — Sample Report

Report Generated: 2026-02-12 05:55 UTC

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.