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The Digital Premium: How Cybersecurity Risk Shapes Bank Loan Contracting

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ABSTRACT:

Cybersecurity risk is a growing concern for public companies as economic activity increasingly relies on technology. Drawing on ideas from financial theory, which suggest that bank lenders obtain private information about corporate borrowers, I propose that lenders incorporate cybersecurity risks into the costs and terms of bank loan contracts. Before looking at empirical facts, this relationship is unclear because cyber threats are unpredictable, making it difficult for bank lenders to measure the exact likelihood and financial size of potential cyber losses. Looking at private bank loans, I find a direct connection between higher cybersecurity risk and higher interest charges. This relationship is less noticeable for borrowing companies with high-quality information technology and much stronger in banking markets with fewer competing banks. I also find that after a business suffers a successful cyberattack, the trading value of its existing loans drops if the business was already known to face high cyber risk, but increases if the business was previously considered low risk. Overall, these findings suggest that while new government rules requiring public reports on digital security help general individual investors, they may be less critical for large bank lenders who collect private information directly.

INTRODUCTION

Cybersecurity Risk and Bank Loan Contracting

The business environment is changing rapidly as modern technology transforms how daily operations are conducted. While advances in software, cloud computing, and automated data processing create work efficiency and improve business decision-making, they also expose companies to greater digital security threats. In recent business surveys, top executives routinely identify cybersecurity as a major threat to corporate growth, emphasizing the importance of managing technology-related risks across every industry sector.

Despite heavy spending on digital defence systems, even large and highly sophisticated companies face online security threats. For example, security evaluations of top global firms reveal widespread vulnerabilities to digital attacks. In this paper, I examine how bank lenders incorporate a borrowing company's overall cybersecurity risk into private loan agreements before

any actual security breach occurs.

Focusing on measuring digital security risk before an attack happens sets this research apart from prior studies, which mainly looked at how markets react after a security breach is publicly announced. For instance, earlier studies documented negative stock market reactions and increased borrowing costs after companies disclosed computer breaches, suggesting that general market participants were not fully anticipating digital security dangers in advance.

There is an important distinction between reacting after a cyber incident occurs and planning for digital security risks before anything goes wrong. Recent research shows that general stock market investors do pay attention to digital security risks beforehand. This study builds on that idea by examining private bank loans-a setting where lenders operate with different access to private business information and under different contract rules.

Unlike regular public stock investors, bank lenders have direct access to private corporate information. During initial loan applications and throughout the life of the loan agreement, banks receive detailed business plans and internal corporate investment reports to evaluate the borrower's financial health. This private information allows bank lenders to examine a broad range of company-specific risks and design loan agreements accordingly.

I rely on ideas from loan contracting theory, which state that banks use contract terms both to earn fair compensation for potential risk and to guard against unexpected financial troubles. I argue that digital security risk is an important consideration in bank loan negotiations because companies facing high digital security threats are more exposed to cyberattacks that can interrupt operations and reduce future income. Bank loan contracts contain specific legal protections that allow lenders to revise contract rules if a borrowing company becomes significantly less financially sound.

Bank lenders can address digital security risks by charging higher interest rates if they worry about a company's ability to fulfil its repayment promises. Lenders can also adjust non-price contract terms, such as demanding physical assets as collateral or setting strict operating limits to reduce potential losses. However, because digital security threats are relatively new and hard to measure, it has been unclear how bank lenders incorporate these risks into loan contracts.

Core Question: How do bank lenders evaluate digital security threats before attacks happen, and how are these risks reflected in interest charges, required collateral, and loan rules?

To incorporate digital risk into loan contracts, bank lenders would need to guess the likelihood of future cyberattacks and estimate the potential financial damage. Even if banks can evaluate digital security risks, strong competition among banks might limit their ability to charge higher interest rates to borrowers. Furthermore, digital security risks are closely linked to company characteristics such as overall size, operational complexity, and public visibility, making accurate assessment challenging.

Prior research shows that larger and more diversified companies enjoy easier access to loan financing, face fewer communication hurdles with lenders, and borrow money at lower interest rates because their steady revenue reduces the chance of loan default. However, these exact same

large companies often maintain complex technology systems and store vast amounts of confidential customer data across multiple locations, increasing their exposure to online attacks. While large companies have more money to spend on digital defences, their size and fame make them more appealing targets for hackers. Thus, it remains an open question whether bank lenders focus more on a firm's overall stability or its digital vulnerability when creating loan agreements.

Using a large collection of private bank loan contracts, I present clear evidence that banks charge higher rates and add stricter rules based on a borrower's digital security risk. I find that companies with higher digital security threats face noticeably higher interest charges on their loans. This finding shows that the extra financial risk associated with digital security threats outweighs the interest rate discounts that larger and more complex companies normally receive.

I also find that digital security risk leads to stricter non-interest loan conditions. High digital security risk increases the likelihood that a loan will require physical assets as collateral. Pledging company assets serves as a practical protection for banks because secured lenders are paid back before unsecured lenders if a borrower runs into severe financial trouble.

Furthermore, high digital security risk is linked to more restrictive operating covenants. These legal rules limit managerial actions, reducing risky business behaviour and giving lenders early warning controls if the borrower experiences difficulty. Bank lenders are also much more likely to require that any insurance proceeds received by the company be directed toward paying off the loan balance immediately.

To understand how lender reactions differ across different business settings, I conduct several detailed comparisons. I find that the link between digital security risk and higher borrowing costs is weaker for companies with strong technology reputations and robust cybersecurity insurance. This suggests that bank lenders adjust interest rates based on how well a borrowing company can prevent or manage digital security threats.

Looking at banking market conditions, I find that lenders in less competitive markets are much more likely to charge extra interest for digital security risks. In contrast, in highly competitive banking areas, competing banks absorb more of the risk themselves to attract business, leading to weaker interest rate penalties for borrowers.

I perform several additional checks to confirm these findings. First, I consider the timing of when digital security risk affects loan pricing. While I measure digital risk in the year prior to the loan agreement, it is possible that digital risk is simply a permanent company characteristic. To check this, I examine digital risk levels measured two and three years before the loan agreement. The results show that banks specifically price recent digital risk disclosures rather than older historical records.

From an industry-wide perspective, I examine how lender reactions to digital security risks have changed over time. I find that after central banking authorities launched special initiatives in 2014 to evaluate cyber threats, the link between digital security risk and higher borrowing costs became much stronger. This indicates that regulatory focus increased bank awareness, leading to more systematic pricing of digital security threats in corporate loan contracts.

To address concerns that digital security risk might simply reflect general poor management

or weak accounting controls, I repeat the tests while explicitly accounting for financial reporting weaknesses and internal technology deficiencies. I continue to find a strong direct connection between digital security threats and higher loan costs, proving that digital security risk represents a distinct financial concern for lenders.

Finally, I examine how existing loans trade in secondary financial markets after a cyberattack occurs. I find that loan values drop after an attack among companies that were already known to face high digital risk, confirming that banks had correctly anticipated potential losses. In contrast, loan values actually rise after an attack among companies that were previously considered low risk, showing that secondary markets re-evaluate unexpected surprises.

BACKGROUND AND PRIOR RESEARCH

1. Background and Regulatory Context

Government standards define digital security threat as the uncertainty surrounding technology systems-specifically the danger of losing confidential business records, experiencing operational shutdowns, or suffering financial damage. As companies depend more on online platforms, enterprise software, and cloud storage to run daily operations, these technology risks become central to business survival.

Recent regulatory trends highlight the importance of managing digital security risks across all commercial sectors. Government oversight bodies recently introduced rules requiring public companies to disclose their procedures for managing digital threats, describe executive and board oversight, and state whether board members possess technology expertise. In addition, financial regulators have proposed mandatory annual evaluations of digital security policies for major market firms and expanded rules requiring rapid notifications during system intrusions.

2. Related Literature and Bank Loan Settings

Several existing studies present evidence on how markets react after cyber breaches occur. Looking at stock market trends, research shows that announcing a computer breach leads to immediate drops in company value and long-term declines in investor confidence. Other studies document clear reactions from non-investor groups, showing that independent corporate auditors charge higher fees and bank depositors withdraw funds following public security breaches.

In the primary bank loan market, interest rates and contract conditions are established before loan agreements are signed, based on borrower financial health, industry conditions, and loan-specific rules. Related studies show that companies experiencing public cyber breaches face higher interest rates and stricter contract rules when applying for new loans after the attack. In contrast, this paper focuses on the initial stage, evaluating how bank lenders predict and incorporate digital security threats into loan terms prior to any security breach. Once loans are issued, they can be traded in secondary debt markets, where investors adjust loan values when new risk information emerges.

Recent market studies show that general stock investors consider digital security risks before breaches occur, demanding higher investment returns from companies exposed to online threats.

While these findings show that public stock investors evaluate digital risks in advance, those results might not apply directly to private bank loans. Bank loan settings involve vastly different information sharing, closer monitoring mechanisms, and unique legal contract rules.

3. **Hypotheses Development**

Digital Security Risk and Loan Pricing (Hypothesis 1): There is a rich body of business research examining how information shapes bank loan agreements. Before signing loan contracts, bank lenders require substantial private information, including sales forecasts, operational budgets, and internal corporate structure documents. Although sharing this information reduces confusion between borrowers and lenders, complete certainty is impossible because loan contracts are written under partial information. Contract theory recognizes that lenders and borrowers cannot plan for every possible future event because certain outcome details remain unknown at the start.

Many business loans represent private agreements between banks and corporate borrowers. Banks demand extensive private details that are never shared with the general public. Lenders use this exclusive information to evaluate a borrower's operational risks, which are then built into loan pricing decisions. Because digital security threats can disrupt manufacturing, halt sales, and create sudden expenses, high digital risk increases the chances that a company might struggle to pay back its debt.

Borrowers facing greater operational uncertainty are charged higher interest rates than safer borrowers, holding all else equal. If bank lenders collect clear information regarding a borrower's digital security threats, they should use that knowledge to adjust borrowing costs upwards. This leads to the first formal prediction:

Hypothesis 1 (H1): Relative to companies with lower digital security risk, companies with higher digital security risk face higher interest charges on their bank loans.

Digital Security Risk and Asset Collateral(Hypothesis 2): Bank loan agreements frequently use non-interest rules to align incentives between borrowers and lenders. Requiring physical assets as collateral gives banks direct ownership rights over specific equipment, real estate, or inventory if a borrower defaults on its promises. Collateral serves as a powerful discipline tool because the threat of losing valuable physical property encourages business managers to manage money wisely and avoid reckless choices that could lead to asset seizure. Furthermore, secured lenders are legally prioritized over unsecured creditors during debt liquidations.

If bank lenders view digital security threats as a significant hazard to future business cash flow, banks are expected to demand physical asset collateral whenever digital security risks are high. This leads to the second formal prediction:

Hypothesis 2 (H2): Relative to companies with lower digital security risk, companies with higher digital security risk are more likely to have loans requiring physical asset collateral.

Digital Security Risk and Contract Rules (Hypothesis 3): Beyond demanding physical asset collateral, bank lenders can use restrictive operational rules to control borrower risk. Business contracting theory argues that when loan contracts include rules preventing borrowers from taking risky actions, borrowing companies benefit through lower overall conflict with lenders. By restricting management decisions, contract rules guard against opportunistic behaviour and protect lenders from unexpected losses.

Violating loan rules imposes heavy costs on borrowers, often triggering immediate interest rate hikes or demanding instant loan repayment. However, strict rules also serve as automatic early warnings that transfer key management control rights to banks whenever financial health declines. Because bank lenders might rely on higher interest rates instead of adding more contract rules, the third prediction examines whether rule intensity systematically increases with digital security threats:

Hypothesis 3 (H3): Companies with higher digital security risk face a greater total number of restrictive operating rules and conditional payment clauses in their loan contracts compared to companies with lower digital security risk.

STUDY DESIGN AND MEASUREMENT

1. Statistical Model Framework

To evaluate the research predictions regarding the connection between digital security threats and bank loan contract terms, I analyse a large database of individual corporate loan facilities. The study examines four primary features of commercial loan agreements:

- Interest Rate Premium: The total interest rate charged above standard baseline bank lending rates, including all annual facility fees paid by the borrowing company.
- Collateral Requirement: An indicator tracking whether the loan facility is physically secured by pledged corporate assets such as real estate, machinery, or inventory.
- Operating Rule Intensity: A combined index measuring overall contract restriction, constructed by counting mandatory financial targets, debt limits, dividend restrictions, and asset sale controls.
- Insurance Pay-out Directives: A specific contract rule requiring that any monetary cash recoveries received from commercial insurance policies must be used immediately to reduce outstanding loan balances.

2. Measuring Digital Security Threats

The primary variable tracking digital security threats measures textual similarity between corporate risk descriptions. Specifically, the annual risk factor disclosures from a company's yearly financial report are compared against the combined risk disclosures of businesses that experienced real, publicly disclosed cyber breaches in the preceding year. A higher wording

similarity reflects greater alignment with actual victimized companies, signalling greater firm vulnerability and operational exposure to online threats.

3. **Comprehensive Control Factors**

To ensure that the results specifically isolate the impact of digital security threats rather than general corporate characteristics, the analysis accounts for a broad range of firm financial health, technology management, loan structure, and overall economic factors:

Firm Financial Controls: The analysis accounts for overall company size (total firm assets), market growth potential, existing corporate debt burden, operating profitability, physical asset proportion (net property, plant, and equipment), historical cash flow stability, and overall bankruptcy risk calculations.

Technology Governance Controls: To confirm that digital security threat does not simply proxy for general executive incompetence, the study includes explicit indicators for whether the company employs a Chief Information Officer, whether board members possess formal technology backgrounds, whether a dedicated technology committee oversees operations, whether the firm maintains active cybersecurity insurance coverage, and whether industry peer companies suffered recent computer breaches.

Loan Structure & Economic Controls: The model accounts for loan agreement duration, total facility dollar amount, automatic interest adjustment mechanisms based on credit performance, loan structural categories (such as term loans, long-term credit lines, short-term revolving facilities, or annual credit lines), and primary loan objectives (such as general corporate expansion, leveraged buyouts, corporate acquisitions, or working capital). Broad economic background is accounted for using national corporate bond yield spreads and treasury yield differences across maturities.

4. **Sample Construction and Data Coverage**

The research sample is created by combining commercial loan records from major banking databases with corporate financial statements and textual digital risk scores across the sample period. The dataset begins after expanded annual disclosure rules took effect and covers thousands of individual corporate loan facilities across diverse commercial industries, excluding companies that had already experienced public cyber breaches to ensure the focus remains purely on pre-attack risk evaluations.

EMPIRICAL FINDINGS

1. **Main Results: Digital Security Risk and Loan Pricing (H1**)

Statistical evaluations provide strong support for Hypothesis 1. In basic pricing tests containing full firm and loan financial controls, digital security risk displays a strong, positive link with borrowing costs. When adding general economic conditions, loan categories, and loan purpose factors, the positive link between digital security risk and interest charges remains clear and strong.

Economic Real-World Impact: From a practical business perspective, a noticeable increase in digital security threat leads to an interest rate increase of approximately 10 basis points (one-tenth of one percentage point). On an average commercial loan facility size of $843 million, a 10 basis point interest rate increase imposes an additional annual interest payment of roughly $843,000. This economic penalty is comparable in size to the extra borrowing costs imposed on companies with heavy customer concentration, representing a meaningful financial cost for latent operational risk.

2. **Main Results: Collateral Requirements (H2)**

Statistical evaluations regarding collateral provisions strongly support Hypothesis 2. Across all test variations, higher digital security threats show a strong, positive link with the likelihood that a loan facility must be secured by physical corporate assets.

Holding all financial controls at typical sample averages, a notable increase in digital security risk increases the implied chance of a loan requiring physical collateral by roughly 30%. These findings demonstrate that pledging physical company property is actively required by commercial banks as an effective tool to hedge against digital security risks.

3. **Main Results: Operating Rules and Insurance Directives (H3)**

Contract Rule Intensity: Statistical evaluations examining total contract restriction confirm that bank lenders impose more restrictive operating rules on borrowers facing high digital security threats. Across all specifications, higher digital risk links directly to a higher number of total contract rules. A noticeable increase in digital security risk adds roughly 13% more restrictive operating clauses relative to sample averages. Detailed checks show this effect is driven primarily by rules restricting asset sales, debt issuance, and capital expenditures, rather than simple accounting ratio targets.

Insurance Payment Directives: Evaluations examining insurance payout clauses show that higher digital security threats significantly increase the likelihood that a contract will mandate using insurance recoveries to pay down debt balances. Holding other factors equal, high digital security risk increases the probability of an insurance sweep clause by approximately 21%. Bank lenders utilize insurance payment directives as targeted non-interest protections to mitigate potential cash flow disruptions caused by online security incidents.

Key Finding Summary: High digital security risk leads to: (1) higher interest charges (+10 bps), (2) higher likelihood of requiring physical collateral (+30%), (3) more restrictive operating rules (+13%), and (4) higher probability of insurance pay-out directives (+21%).

4. **Cross-Sectional Analysis: The Mitigating Role of Technology Quality**

Subgroup comparisons examine whether superior borrower technology quality reduces the interest rate penalty associated with digital security threats. Dividing the sample across three distinct dimensions of technology quality demonstrates that bank lenders adjust risk penalties based on internal defence capabilities:

- Technology Reputation: Grouping companies based on inclusion in major technology leader rankings reveals that for firms with strong technology reputations, higher digital risk disclosures do not result in interest rate penalties. In contrast, for firms with low technology reputations, higher digital risk leads to strong interest rate increases. Statistical tests confirm a clear difference between these corporate groups.
- Cybersecurity Insurance Coverage: Grouping firms by corporate cybersecurity insurance holdings shows that companies with active insurance policies do not face higher borrowing costs when digital risk disclosures rise.
- Having active cybersecurity insurance successfully reassures bank lenders and offsets risk concerns.
- Industry Vulnerability: Grouping economic sectors into high vulnerability (such as healthcare, retail, hospitality, and business services) versus low vulnerability reveals that interest rate penalties are concentrated entirely in highly vulnerable industries, while low-vulnerability sectors show no significant interest penalty.

5. **Cross-Sectional Analysis: The Impact of Banking Market Competition**

Lending market competition significantly influences risk pricing. Grouping lead bank lenders by local market concentration reveals that in low-competition markets (where a few lead banks dominate local lending), banks use their market power to charge clear interest penalties for digital security threats. In contrast, in highly competitive banking markets, bank competition forces lenders to absorb risk to attract corporate clients, eliminating interest rate penalties.

6. **Timing Dynamics, Regulatory Focus, and Management Quality**

Timing of Digital Security Risk: To confirm that loan pricing reflects recent risk assessments rather than permanent company characteristics, I re-estimate pricing models using older risk scores measured two and three years prior to loan signing. Older risk scores show no link to current borrowing costs, whereas recent risk disclosures maintain a strong, positive link with interest charges. Lenders explicitly price recent risk information.

Central Bank Regulatory Initiatives: Evaluating central bank supervisory initiatives launched in 2014 regarding cyber risk awareness reveals that after regulatory guidance was issued, the link between digital security threats and higher borrowing costs became much stronger. Regulatory oversight enhanced bank sophistication in evaluating and pricing digital security hazards.

Incremental Impact Beyond Accounting Controls: Controlling directly for official internal accounting control weaknesses and audit report technology deficiencies does not alter the strong link between digital security threats and higher loan costs. Digital security risk represents a distinct financial concern beyond standard accounting control quality.

7. **Secondary Loan Trading Following Realized Security Breaches**

Analysing thousands of secondary market trading quotes for existing loans issued to borrowers that subsequently experienced public cyberattacks provides direct verification of pre-loan bank evaluations. For borrowing companies categorized as facing high digital security risk prior to an attack, loan trading values dropped significantly post attack, confirming that actual losses matched initial bank expectations. Conversely, for low pre-attack risk borrowers, loan values

actually increased post-attack, indicating that secondary markets re-evaluated unexpected operational surprises across the industry.

CONCLUSION AND DISCUSSION:

This study provides comprehensive evidence on how private commercial banks evaluate and price digital security threats before security breaches occur. Analysing a large sample of private commercial loan agreements across a ten-year period, I document that corporate borrowers facing higher digital security risk pay higher interest rates, are more likely to pledge physical asset collateral, face stricter operating rules, and are more frequently required to hand over insurance recoveries to reduce debt balances.

Detailed subgroup evaluations highlight crucial boundary conditions: the borrowing cost penalty associated with digital security threats is substantially reduced or eliminated for companies possessing strong technology reputations, active cybersecurity insurance, or operations in low-vulnerability industries. Furthermore, bank market structure plays a vital role: interest rate penalties are concentrated in less competitive banking markets where dominant banks hold pricing power, whereas intense bank competition forces lenders to absorb digital risks.

Timing evaluations confirm that bank lenders price recent risk disclosures rather than static company features, and supervisory regulatory focus heightened bank sensitivity toward digital threat pricing. Finally, secondary market loan trading patterns confirm that initial bank evaluations accurately reflect future breach impact.

- **Regulatory and Policy Implications**

These empirical findings carry substantial implications for accounting regulators, financial policymakers, and corporate executives. Recent government regulations mandate extensive public reports regarding board oversight, management governance, and digital risk management strategies. The findings of this paper indicate that sophisticated capital providers-namely commercial bank lenders-possess private information gathering mechanisms and were already actively analysing, pricing, and structuring debt contracts around digital security risks long before mandatory public rules were introduced.

Consequently, while standardized public risk disclosures offer vital decision-useful information to general individual investors who lack private information access, they offer less incremental benefit to professional bank lenders who evaluate and price these risks directly through private loan negotiations.

SELECTED KEY REFERENCES

1. Akey, P., S. Lewellen, I. Liskovich, and C. Schiller. 2024. Hacking corporate reputations. Working paper.
2. Altman, E. I. 1968. Financial ratios, discriminant analysis and the prediction of corporate bankruptcy. The Journal of Finance 23 (4): 589-609.
3. Amir, E., S. Levi, and T. Livne. 2018. Do firms underreport information on cyber-attacks? Evidence from capital markets. Review of Accounting Studies 23 (3): 1177-1206.
4. Armstrong, C. S., W. R. Guay, and J. P. Weber. 2010. The role of information and financial reporting in corporate governance and debt contracting. Journal of Accounting and Economics 50 (2-3): 179-234.

5. Ashraf, M. 2022. The role of peer events in corporate governance: Evidence from data breaches. The Accounting Review 97 (2): 1-24.
6. Campello, M., and J. Gao. 2017. Customer concentration and loan contract terms. Journal of Financial Economics 123 (1): 108-136.
7. Christensen, H. B., V. V. Nikolaev, and R. Wittenberg-Moerman. 2016. Accounting information in financial contracting: The incomplete contract theory perspective. Journal of Accounting Research 54 (2): 397-435.
8. Diamond, D. W. 1984. Financial intermediation and delegated monitoring. Review of Economic Studies 51 (3): 393-414.
9. Fama, E. F. 1985. What's different about banks? Journal of Monetary Economics 15 (1): 29-39.
10. Florackis, C., C. Louca, R. Michaely, and M. Weber. 2023. Cybersecurity risk. The Review of Financial Studies 36 (1): 351-407.
11. Gordon, L. A., M. P. Loeb, and L. Zhou. 2011. The impact of information security breaches: Has there been a downward shift in costs? Journal of Computer Security 19 (1): 33-56.
12. Graham, J. R., S. Li, and J. Qiu. 2008. Corporate misreporting and bank loan contracting. Journal of Financial Economics 89 (1): 44-61.
13. Kamiya, S., J. Kang, J. Kim, A. Milidonis, and R. Stulz. 2021. Risk management, corporate governance, and bank loan terms. Journal of Financial and Quantitative Analysis 56 (3): 821-851.

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