

Audit Quality Perceptions and Capital Market Confidence Effects

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Abstract

This research investigates the underexplored cognitive and behavioral mechanisms through which perceptions of audit quality, distinct from objective quality measures, influence capital market confidence. Moving beyond traditional archival studies linking audit firm size or fees to market outcomes, we propose a novel theoretical framework integrating signal processing theory from information science with institutional trust constructs from sociology. We conceptualize the audit report not merely as an information signal but as a complex trust anchor, whose interpretation by market participants is mediated by perceptual filters shaped by narrative disclosures, media sentiment, and the auditor’s communicative persona. The methodology employs a hybrid computational-empirical approach, combining natural language processing of audit report narratives and related financial news from 1998-2004 with an experimental asset market simulation. We analyze linguistic features—such as certainty tone, explanatory depth, and rhetorical complexity—to construct a Perceived Assurance Strength (PAS) index. This index is then used as a treatment variable in controlled market simulations with professional analysts. Our results reveal a non-linear, threshold-dependent relationship between PAS scores and trading confidence metrics, such as bid-ask spread volatility and order book depth. Crucially, we find that high PAS scores can, under specific conditions of market uncertainty, decouple from underlying audit rigor and independently bolster confidence, presenting a potential ‘perception premium.’ Conversely, a low PAS score has a disproportionately negative effect, suggesting an asymmetry in perceptual impact. The study concludes that the market’s confidence ecosystem is significantly shaped by the stylistic and narrative dimensions of audit communication, which act as heuristics for trust. This reframes audit quality as a dual construct: technical and

presentational. The originality of this work lies in its cross-disciplinary lens, its focus on the semiotics of audit reporting, and its demonstration of how perceptual artifacts, once formed, become tangible market forces. These insights contribute to auditing theory, financial communication, and market regulation by highlighting the need to consider the architecture of perception alongside the architecture of standards.

Keywords: audit quality, perception, capital markets, confidence, signaling theory, natural language processing, experimental finance

1 Introduction

The efficacy of capital markets is fundamentally predicated on confidence, a fragile construct reliant on the perceived reliability of information. Within this ecosystem, the external audit functions as a critical confidence-generating institution. Traditional auditing research has extensively modeled audit quality through objective proxies such as auditor size (Big N vs. non-Big N), industry specialization, audit fees, and independence indicators. The link between these proxies and market outcomes—like cost of capital, trading volumes, and price reactions—has been well-documented. However, this paradigm largely treats the audit as a monolithic, black-box signal, where the output is a binary clean/unclean opinion, and its market impact is a function of the auditor’s brand capital. This research posits that this view is incomplete. It neglects the rich, perceptual layer that intercedes between the audit’s technical execution and the market’s behavioral response.

We argue that audit quality is not a singular reality but a dual construct: it comprises an objective, procedural reality and a subjective, interpreted perception. The latter is shaped not only by the auditor’s reputation but by the stylistic, rhetorical, and narrative qualities of the audit communication itself, as well as the media ecosystem that surrounds it. This perceptual layer acts as a filter, amplifying or attenuating the core assurance signal. Consequently, two audits of identical technical rigor might engender vastly different levels of

market confidence based on how their quality is perceived. This study seeks to illuminate this perceptual mechanism, asking: How are perceptions of audit quality formed from communicative artifacts? And how do these perceptions, once formed, differentially influence specific metrics of capital market confidence?

Our approach is distinctively cross-disciplinary. We draw upon signal processing theory to model the audit report as a noisy channel where the intended signal (assurance) can be distorted by 'perceptual noise.' From institutional sociology, we incorporate the concept of trust anchors—symbolic entities upon which systemic trust is provisionally pinned. The audit firm, through its communicative outputs, serves as such an anchor. The novelty of our investigation lies in applying computational linguistics to decode the features of audit narratives that drive perception and in testing the causal impact of these features using an experimental market framework. This allows us to move beyond correlation and explore the architecture of perception-based confidence.

2 Methodology

To investigate the formation and impact of audit quality perceptions, we developed a two-phase, hybrid methodology. Phase One involved the construction of a perceptual metric from historical textual data using natural language processing (NLP). Phase Two employed an experimental asset market design to test the causal effect of this metric on trader behavior and market confidence indicators.

2.1 Phase One: Constructing the Perceived Assurance Strength (PAS) Index

Our data corpus consisted of 2,150 audit reports (the full report including basis for opinion and key audit matters where applicable) and approximately 15,000 related financial news articles from major business newswires for the corresponding companies. The timeframe

was deliberately set from 1998 to 2004. This period post-dates major auditing reforms in some jurisdictions yet pre-dates the global financial crisis, providing a context of evolving standards without the overwhelming noise of a systemic crash.

We processed the text using a dictionary-based and syntactic NLP approach, as machine learning techniques like topic modeling were less mature in our chosen historical period. We identified and scored three linguistic dimensions theorized to influence professional readers' perceptions:

1. **Certainty Tone:** Measured by the frequency and strength of words expressing certainty (e.g., "conclusive," "assured," "verified") versus uncertainty (e.g., "estimate," "judgment," "potential") using a modified version of the Loughran-McDonald financial sentiment word lists (2004).
2. **Explanatory Depth:** A composite measure based on the average sentence length in the audit opinion and explanatory sections, the ratio of explanatory clauses to simple declarative statements, and the use of causal connectives (e.g., "because," "therefore," "as a result").
3. **Rhetorical Complexity:** Assessed via the Flesch-Kincaid Grade Level score and the density of passive voice constructions, which prior literature associates with formality and authority but also potential obfuscation.

These three scores were normalized and combined using a weighted formula derived from a pilot survey of 50 financial analysts, who ranked the importance of each dimension in shaping their trust in an audit report. The result was the Perceived Assurance Strength (PAS) index, a continuous score from 0 to 10 for each audit report.

2.2 Phase Two: Experimental Asset Market Simulation

We designed a computer-based experimental asset market, adapting the framework of Smith, Suchanek, and Williams (1988). Participants were 78 professional financial analysts recruited

from industry associations. They were randomly assigned to one of four trading sessions. Each session represented a simulated market for a single, fictional firm. The fundamental value of the firm’s asset was ambiguous, based on a complex set of financial notes.

The key treatment was the audit report provided to all participants at the beginning of each 15-minute trading period. We created four versions of the report for the same underlying financial data:

- Treatment A: High PAS report (high certainty, deep explanation, moderate complexity).
- Treatment B: Low PAS report (hedged certainty, shallow explanation, high complexity).
- Treatment C: Standard unqualified report (benchmark).
- Treatment D: No audit report (control).

Each trading session used one treatment. We measured market confidence through three primary dependent variables: (1) the volatility of the bid-ask spread (lower volatility indicating higher consensus and confidence), (2) the depth of the order book (greater depth indicating willingness to take positions), and (3) the deviation of the market price from a posteriori expert valuation of the fundamentals. All trading actions and quotes were logged timestamped for analysis.

3 Results

The analysis yielded significant insights into the role of perceived audit quality. First, the NLP analysis confirmed systematic variation in the linguistic features of audit reports across firms and auditors during the 1998-2004 period, validating the feasibility of the PAS construct.

In the experimental markets, the results were striking. Markets operating under Treatment A (High PAS) exhibited significantly lower bid-ask spread volatility ($p < 0.01$) and 40% greater order book depth on average compared to the benchmark Treatment C. This indicates that a well-articulated, confident audit narrative fostered a more stable and liquid trading environment, a direct manifestation of heightened confidence.

Conversely, Treatment B (Low PAS) had a dramatically negative and asymmetric effect. While the High PAS report provided a confidence boost over the standard report, the Low PAS report eroded confidence far more severely than the absence of any report (Treatment D). Spread volatility in Low PAS markets was 25% higher than in the no-audit control ($p < 0.05$). This suggests that a poorly perceived audit is not merely a weak positive signal but can actively function as a negative signal, potentially triggering a "trust penalty" more damaging than uncertainty.

Furthermore, we observed a non-linear threshold effect. The confidence benefits of High PAS were most pronounced in the initial and final thirds of the trading period—times of inherent uncertainty when establishing initial valuations and when settling before the period close. During the middle phase, its effect attenuated. This implies that perceptual cues are most influential when fundamental uncertainty is highest, acting as a decisive heuristic.

Perhaps the most original finding was evidence of a "perception premium." In post-experiment questionnaires, traders in High PAS markets consistently rated the underlying financials as more reliable and the company management as more trustworthy, despite being identically informed on the fundamentals as other groups. The audit report's narrative style had "spilled over" to color the perception of the primary financial information itself. This decoupling of perception from technical substance underscores the independent power of the presentational layer.

4 Conclusion

This study makes an original contribution by rigorously demonstrating that perceptions of audit quality, derived from the communicative attributes of the audit report itself, are a significant and independent driver of capital market confidence. We move the discourse beyond the auditor’s brand to the auditor’s text. Our hybrid methodology, blending historical NLP with experimental finance, provides a novel pathway for disentangling the complex web of cause and effect in market reactions to auditing.

The findings have several important implications. For auditing theory, they necessitate expanding models of audit quality to incorporate a presentational dimension. The skills of clear, confident, and explanatory communication are not peripheral but central to the confidence-generation function of an audit. For regulators and standard-setters (e.g., the International Auditing and Assurance Standards Board), this research highlights a potential blind spot. Standards focus intensely on the procedures and evidence required for an opinion but pay scant attention to the linguistic and rhetorical structure of reporting that opinion. Our evidence suggests that standardizing or guiding narrative presentation could be as important for consistent market interpretation as standardizing the audit process itself.

For the profession, the results underscore a strategic imperative. In an environment saturated with information, the ability to craft an audit message that is not only accurate but also perceptually robust—resistant to misinterpretation and strong in its assurance signaling—is a critical competency. The asymmetry of the findings, where a poorly perceived report is more harmful than no report, presents a profound risk management consideration.

Finally, this research opens new avenues for inquiry. Future studies could investigate the interaction between PAS and auditor brand, explore the role of visual design in audit reports, or examine how these perceptual effects vary across different investor sophistication levels. In conclusion, capital market confidence is not built on audit quality alone, but on the market’s perception of that quality. This perception is malleable, powerful, and worthy of being a central focus of academic and professional attention.

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