

Research Evolution, Knowledge Mapping and Frontier Trends of Modern Enterprise Governance System Restructuring: A Visual Analysis of Business Administration Discipline

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Abstract

This study examines how research on modern enterprise governance has changed as digitalization, ESG duties, wider stakeholder claims, and repeated uncertainty have altered the problems firms must govern. Bibliometric analysis and visual knowledge mapping are combined to reconstruct publication development, scholarly collaboration, keyword relations, thematic clusters, co-cited foundations, and emerging topics. The evidence shows continuity as well as expansion. Ownership, boards, incentives, and control remain the classical core, but newer work increasingly addresses stakeholder participation, sustainability, data and algorithm accountability, compliance, platform ecosystems, innovation, and resilience. These themes do not form a single theoretical school. Read together, they support a system-level understanding of governance in which decision authority, information, answerability, social responsibility, and adaptive capacity must remain aligned. The review concludes by identifying comparative and empirical questions that can advance research on governance modernization.

1. Introduction

Enterprise governance in business administration began with a fairly concrete concern: how decision authority is allocated and how its use can be checked. Earlier scholarship concentrated on the relationship among shareholders, directors, and senior managers. Ownership arrangements, board supervision, executive incentives, disclosure, internal control, and audit were treated as practical responses to the risk that delegated power would be used opportunistically (Fama &

Jensen, 1983; Jensen & Meckling, 1976).

That architecture was developed before digital infrastructures became central to ordinary corporate activity. Data systems now influence where firms draw their boundaries, how they organize transactions, and what information reaches management (Vial, 2019). At the same time, ESG claims, regulatory shifts, geopolitical frictions, fragile supply chains, and rapid technological turnover have entered routine strategic judgment. Under these conditions, governance cannot be assessed only by asking whether managerial discretion is constrained. It must also be judged by whether the governing arrangement can be revised when the circumstances for which it was designed have materially changed (Aguilera et al., 2021; Kraus et al., 2022; Mahajan et al., 2023; Verhoef et al., 2021).

This study treats governance as something that is enacted, not merely written into statutes or committee charters. A formal allocation of board authority has little meaning unless it changes who receives information, who may question a proposal, how an exception is escalated, and what record remains after a decision. In this article, modern enterprise governance system restructuring means altering these operating relationships after the old arrangement no longer fits the firm's needs. The alteration may involve ownership and board powers, but it may equally take the form of revised incentives, different approval thresholds, reassigned ESG duties, tighter scrutiny of digital systems, or a more credible route for challenging a decision.

Research relevant to this problem is dispersed across several conversations. Work on ownership and boards is commonly separated from studies of employee voice, sustainability performance, platform organization, or organizational recovery. Digital transformation and corporate responsibility have also developed into specialist literatures with their own concepts and outlets. As a result, the evidence base is rich when a single mechanism is examined, but much thinner when the question is how several mechanisms are recombined during a governance redesign (Cai et al., 2023; Chen & Zhang, 2023; Fang et al., 2023; Ma et al., 2024; P. Wu et al., 2023; S. Wu & Li, 2023; Wang et al., 2023; Zhao & Cai, 2023).

A bibliometric approach offers one way to reconstruct those separate conversations at field level. Publication metadata can reveal recurring terms, collaboration patterns, frequently cited foundations, and the journals in which particular debates have taken shape (Zupic & Čater, 2015). Such evidence cannot substitute for reading arguments or observing firms, and it does not establish causal effects. It does, however, make visible the contours of a body of work that would be difficult to assemble from a conventional narrative review alone. The method is therefore used here to distinguish durable governance themes from newer points of convergence and from topics whose prominence has risen only recently (Donthu et al., 2021; Khan, 2022; Mukherjee et al., 2022).

The analysis is organized around five related questions. It asks how the literature has changed over time, where its principal authors and institutional contributors are located, which conceptual clusters structure the field, how those clusters have shifted across periods, and which topics now show the clearest signs of becoming future research fronts.

The contribution of the article is the connection it draws among these strands. Rather than presenting digital oversight, ESG, stakeholder participation, platform relations, compliance, innovation, and resilience as unrelated extensions of corporate governance, the review locates them within the field's longer development. This makes it possible to see both continuity and change: familiar concerns with authority and control remain, but they are being reconsidered under new organizational and technological conditions. The synthesis is intended to support further theory building and to give practitioners a clearer basis for judging where their own governance arrangements have become internally inconsistent.

2. Literature Review

2.1 Modern Enterprise Governance

The familiar governance dilemma followed from a historical change in the corporation: those who supplied capital increasingly ceased to manage the enterprise themselves. Owners could delegate decision authority, but they could not continuously observe how that authority was used. Classical governance arrangements addressed this distance by creating monitoring, incentive, reporting, and accountability devices intended to reduce private appropriation and protect investors (Berle & Means, 1932; Jensen & Meckling, 1976).

Agency theory provided the dominant explanation for the separation between ownership and control. Delegation gives managers room to pursue private benefits, protect their positions, or prefer short-term gains that do not coincide with owners' interests. Boards, audit, disclosure, incentive contracts, and equity-linked remuneration are meant to make such divergence more costly or more visible. This reasoning still shapes empirical work on ownership concentration, board structure, executive compensation, and performance, although it does not exhaust the range of relationships now included in governance research.

The stakeholder perspective begins from the observation that corporate decisions depend on and affect parties other than investors. Employees often possess knowledge that determines whether a strategy can be implemented; suppliers influence continuity; creditors restrict available choices; and communities or regulators can withdraw legitimacy. Governance therefore includes the procedures through which these interests are heard and reconciled when they conflict. Financial return remains a necessary consideration, but it is not, by itself, sufficient evidence that authority has been exercised responsibly (Donaldson & Preston, 1995; Freeman, 1984).

Institutional theory adds a further layer by locating governance inside a wider rule system. Corporate practices respond not only to statutes, regulation, and market rules, but also to professional expectations, cultural conventions, and pressures for legitimacy. Because those conditions vary, governance forms that appear effective in one national, industrial, or ownership setting may not travel intact to another. This observation is especially pertinent to state-owned firms, family businesses, mixed-ownership organizations, and enterprises operating in transitional economies (DiMaggio & Powell, 1983).

Digital systems alter governance because they change both visibility and control. Artificial intelligence, cloud infrastructure, blockchain applications, platforms, and large datasets may expose behavior that traditional controls could not detect and may coordinate decisions across dispersed units. Yet they can also shift practical authority toward data custodians, model developers, and outside technology providers. Bias, cyber vulnerability, opaque classifications, and automated decisions that cannot be meaningfully appealed are consequences of that shift. Since these issues determine who can act, who can be held answerable, and who bears the resulting harm, they cannot be left solely to the information-technology function (F. Wu et al., 2021; Han et al., 2022; Jiang & Jin, 2022; Yuan et al., 2021; Zhao et al., 2021).

2.2 Enterprise Governance System Restructuring

Governance-system restructuring denotes a coordinated redesign of the arrangements through which a firm is directed and held accountable. It differs from changing a single committee or rule. The object of reform may include ownership, board authority, managerial discretion, incentives, controls, risk and compliance routines, stakeholder voice, and the links between governance and strategy. What matters is the way these elements are recombined, because an alteration in one part of the system can redistribute power or risk elsewhere.

At the structural level, reform commonly revisits ownership, board composition, leadership roles, reporting lines, and the location of decision rights. Different ownership forms—state, private, family, institutional, or mixed—generate different monitoring needs and strategic constraints. Board independence, expertise, diversity, committee organization, and the separation or concentration of leadership positions consequently remain central to explanations of governance quality.

At the level of mechanisms, restructuring concerns the devices that reward, constrain, and review managerial conduct. Compensation, equity incentives, performance appraisal, internal audit, accountability, and compliance procedures can be redesigned to fit a firm's strategy and risk profile. The same applies to risk management: financial, operational, legal, technological, reputational, and environmental exposures increasingly need to be assessed together rather than managed by isolated functions.

A redesign of governance may also change the claims for which the enterprise accepts responsibility. Protection of investors does not disappear, but procedures may be opened to employees, customers, suppliers, or communities whose interests are materially affected. In this context, ESG is consequential only when an environmental or social commitment reaches the places where choices are actually made: board papers, investment screening, managerial evaluation, and follow-up action. A promise becomes governable when an issue can be raised, assigned to a responsible actor, decided, and later traced to what was done (Aguilera et al., 2021; Martiny et al., 2024; Truant et al., 2023; Q. Wu et al., 2024).

Restructuring also changes the firm's capacity to act under pressure. A system may be effective at discovering misconduct yet remain poorly equipped to respond to an unfamiliar shock. For that reason, decision authority, information flows, and review procedures must leave room for experimentation, rapid adjustment, and learning while still setting limits on discretion. Governance in this sense performs two tasks at once: it restrains unacceptable action and helps the organization renew its way of operating.

2.3 Theoretical Foundations

No single theory explains the enlarged scope of governance restructuring. Agency theory remains essential for delegation, incentives, monitoring, and contractual accountability. Its focus on shareholder-manager conflict, however, does not fully address institutional variation, stakeholder claims, technological dependence, or governance as a strategic capability. The literature therefore relies on several perspectives, selected according to the problem being studied.

Stakeholder theory and institutional theory illuminate different parts of the restructuring problem. Stakeholder analysis identifies whose welfare is affected and examines whether employees, consumers, suppliers, communities, and other parties have a meaningful place in corporate deliberation. Institutional analysis explains variation in implementation. The same formal reform may have different consequences because enforcement capacity, ownership traditions, professional conventions, and local expectations influence how the rule is interpreted in daily practice (Mahajan et al., 2023).

Resource-based reasoning brings governance closer to questions of strategy. A valuable resource yields no automatic advantage; someone must decide how it is committed, protected, combined, and reviewed (Barney, 1991). The dynamic-capability perspective adds the problem of change. When markets and technologies move, firms need to notice emerging conditions, act on them, and rearrange existing assets. Seen from this perspective, governance reform is part of building the capacity to reconfigure the organization, not simply a means of policing managers (Teece et al., 1997).

Digital-governance and platform-ecosystem approaches address issues that older theories treat only indirectly. Data ownership, algorithm design, platform rules, network effects, and relations among interdependent participants can redistribute authority well beyond the legal boundary of the firm. These perspectives are particularly useful for technology-intensive businesses and organizations whose value creation depends on external ecosystems.

2.4 Bibliometric Analysis and Knowledge Mapping

Here, bibliometric evidence is treated as a record of how the scholarly conversation has been built. References show which earlier studies later authors rely on; keywords indicate the vocabulary through which problems are framed; and authorship or affiliation data reveal where collaboration has formed. None of these measures is decisive on its own. When read together, however, they help identify shared intellectual anchors, relatively stable research communities, and links between themes that are not obvious from individual papers. Similar designs have been used in reviews of strategy, entrepreneurship, innovation, human resources, digital transformation, sustainability, and corporate governance (Zupic & Čater, 2015; Donthu et al., 2021; Mukherjee et al., 2022).

Knowledge mapping translates those relations into interpretable networks and temporal views. CiteSpace, VOSviewer, Bibliometrix, and Gephi, for example, can display patterns of collaboration, keyword association, co-citation, clustering, and thematic change. The visual output is useful not because a map is self-explanatory, but because it directs attention to influential contributors, tightly connected concepts, foundational references, and topics whose prominence changes over time (Aria & Cuccurullo, 2017; Chen, 2006; van Eck & Waltman, 2010).

Compared with a narrative review, this approach can scan a much larger corpus and expose connections that are easy to miss when studies are read one by one. Its apparent precision nevertheless requires caution. Database coverage, search vocabulary, language and document restrictions, citation delay, and term cleaning can materially change a map. Quantitative patterns therefore need to be interpreted alongside the substance of the cited work rather than treated as conclusions in themselves.

2.5 Research Gap

The need for a field-level review arises from a mismatch between practice and research design. A firm that restructures governance may change decision rights, incentives, reporting, and controls in the same reform, while an empirical study commonly isolates one element in order to estimate its effect. A second separation runs across research communities: corporate governance, ESG, digital oversight, stakeholder relations, and risk management have each accumulated substantial evidence without consistently examining their points of contact. Mapping those points of contact does not replace focused reviews. It shows where distinct literatures are beginning to describe the same business-administration problem from different directions (Khan, 2022; Martiny et al., 2024; Truant et al., 2023).

To address that fragmentation, the article follows the literature through its publication trajectory, collaboration patterns, recurring keywords, thematic clusters, co-cited references, and bursts of attention. The purpose is not to replace detailed substantive reviews, but to establish a common map on which those more focused investigations can be located.

3. Methodology and Procedures

3.1 Data Sources

The dataset is composed of bibliographic records that can be summarized statistically and linked relationally. The Web of Science Core Collection was selected as the principal source because its records use comparatively consistent fields for titles, abstracts, author keywords, affiliations, cited references, publication dates, and citation relations. Those fields provide the raw material for publication trends, collaboration networks, keyword co-occurrence, co-citation structures, and temporal maps. The choice improves comparability across records, although it also narrows the coverage of the review.

Search terms were developed in two passes. The first pass captured established language in corporate governance; the second added expressions associated with governance transformation, digital systems, ESG, and stakeholder arrangements. Management-related terms were then used to reduce the inclusion of records concerned mainly with public administration or political governance. The final working query was: TS = (“enterprise governance” OR “corporate governance” OR “governance system” OR “governance restructuring” OR “governance transformation” OR “organizational governance” OR “digital governance” OR “ESG governance” OR “stakeholder governance”) AND TS = (“business administration” OR “management” OR “strategic management” OR “organization management” OR “corporate management”).

Only journal articles and review articles were retained, since both normally provide stable bibliographic metadata and explicit scholarly contributions. English-language records were used to avoid inconsistent term segmentation during keyword processing. After retrieval, duplicate entries, clearly irrelevant works, editorials, book reviews, and records lacking essential fields were removed before the dataset was transferred to the analytical software.

3.2 Data Screening Process

Screening proceeded in several passes rather than through a single automatic filter. Relevance was first judged against the study's focus on enterprise or organizational governance and management reform. Records were then retrieved from titles, abstracts, author keywords, and Keywords Plus and exported in formats readable by CiteSpace, VOSviewer, and Bibliometrix. Duplicate records were deleted, bibliographic fields were checked, and equivalent expressions were consolidated before network construction.

Cleaning the terminology was not a mechanical exercise. Authors sometimes used “corporate governance,” “enterprise governance,” and “firm governance” for substantially similar ideas, yet in other contexts those labels carried different emphases. The same problem arose with “ESG,” its full expression, and “sustainability governance.” Terms were therefore combined only after the surrounding titles, abstracts, and keywords had been checked. This conservative approach limited false separation in the networks without erasing distinctions that could matter for interpretation.

3.3 Research Tools and Analytical Methods

No single program was used to produce every output. CiteSpace was selected for co-citation analysis, clusters, timelines, and citation bursts (Chen, 2006). VOSviewer provided the author, institution, country, and keyword networks (van Eck & Waltman, 2010). Descriptive statistics and thematic-evolution results were generated in Bibliometrix (Aria & Cuccurullo, 2017), while Excel was used to inspect records, reconcile totals, and prepare trend data. Using the programs in combination also allowed results from one environment to be checked against another.

The procedure moved through description, network analysis, and temporal interpretation. Annual publication counts and journal distribution were examined first to establish the basic profile of the corpus. Collaboration was then assessed through author and institutional links, while keyword co-occurrence and co-citation were used to inspect thematic structure and intellectual dependence. Timeline views and citation bursts were considered last, so that an

apparent new topic could be checked against its earlier foundations. No single visual output was treated as sufficient evidence; interpretations were retained only where several results supported the same reading (Donthu et al., 2021; Jiang, 2022; Mukherjee et al., 2022).

3.4 Research Framework

The research design links three levels of interpretation. The evolutionary level follows changes in publication activity and dominant themes; the mapping level identifies collaboration, conceptual clusters, and shared foundations; and the frontier level focuses on recent bursts and emerging topics. Reading the outputs together avoids treating any one network as a complete representation of the field.

Figure 1. Research Framework of the Study

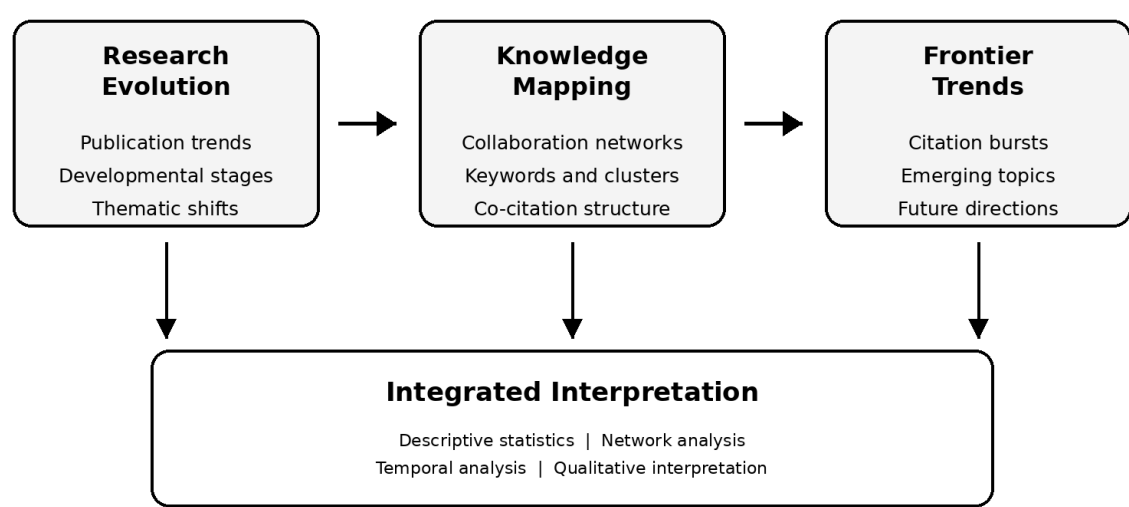


Table 1. Analytical Dimensions and Main Methods

Analytical Dimension	Main Method	Purpose
Research evolution	Publication trend and timeline analysis	Identify developmental stages and thematic shifts
Knowledge mapping	Collaboration, keyword, cluster, and co-citation analysis	Reveal intellectual foundations and knowledge structure
Frontier trends	Citation-burst and emerging-topic analysis	Identify prospective research directions

Source: Prepared by the author from the research design.

4. Results and Discussion

4.1 Research Evolution Analysis

Publication patterns provide a rough chronology of scholarly attention, although output alone does not establish intellectual importance. The literature initially appeared mainly under the headings of corporate governance, ownership, boards, executive incentives, agency conflict, and investor protection. Governance restructuring was therefore present as a problem of reform and

control before it became an explicit, stand-alone label.

The agenda widened as globalization, market competition, institutional reform, and corporate responsibility became harder to separate from internal control. Stakeholder and institutional perspectives brought governments, communities, and social expectations into the analysis, while strategy and organization research connected governance with adaptation and change. The unit of analysis consequently moved beyond the bilateral owner-manager relationship.

The most recent literature is not organized around one successor to the traditional governance agenda. Instead, several pressures have arrived at roughly the same time: digital transformation, greater ESG scrutiny, platform-based organization, tighter regulation, and repeated disruption. Their interaction places questions of data control beside questions of accountability, and links compliance design to dependence on external ecosystems and the ability to continue operating under strain. Governance research is consequently moving beyond the search for one more board-level device. It is increasingly concerned with whether control, responsibility, and adaptation remain aligned across activities that extend outside the conventional boundary of the firm (Lai & Yan, 2024; Tao et al., 2023; L. Wu, 2023; Zhang & Gu, 2024).

The four periods visible in the record should not be interpreted as sharply separated stages. Themes persist and overlap. Early studies give most attention to ownership, boards, executive rewards, investor protection, monitoring, and agency conflict. Later scholarship brings stakeholder claims, institutional settings, resources, and strategy into the frame. A further body of work focuses on audit, internal control, compliance, risk, and performance systems. The newest publications do not discard these concerns; they connect them with digital infrastructure, ESG obligations, platform dependence, and uncertainty. The field therefore appears to be moving toward explanations based on combinations of mechanisms rather than one mechanism considered in isolation.

A related change concerns the unit of analysis. Earlier studies largely inspect formal positions and contracts: who owns the company, who occupies board seats, and how senior executives are paid. Subsequent work asks how those arrangements operate under different institutions, how affected groups participate, and how governance shapes strategic or organizational change. The later appearance of terms such as data governance, ESG, platform governance, resilience, and sustainable development indicates a further widening. The emerging question is how these domains interact when authority is distributed across both organizational units and external infrastructures.

The theoretical vocabulary has widened with the empirical agenda. Agency theory remains useful for examining delegation, monitoring, and incentive conflict. Stakeholder theory becomes more relevant when several constituencies can make legitimate claims, while institutional theory accounts for differences produced by enforcement and social legitimacy. Resource-based and dynamic-capability arguments direct attention to innovation and the firm's ability to reconfigure itself. Where authority is exercised through data, algorithms, platforms, or interorganizational networks, digital-governance and ecosystem perspectives provide concepts that the older theories do not readily supply (Aguilera et al., 2021; Mahajan et al., 2023; Verhoef et al., 2021).

4.2 Knowledge Mapping Analysis

The co-authorship network is better described as a set of neighboring communities than as a single school. One cluster is anchored in ownership and board research; another is associated with ESG and stakeholder questions; a newer set of collaborations is forming around digital transformation and technological oversight. Scholars from finance, strategy, information systems, sustainability, and law contribute to these areas. Ties are often strong within a specialized topic

but relatively sparse across disciplinary boundaries, and the map offers no evidence that one group controls the field's direction.

Collaboration tends to follow substantive specialization. Traditional governance teams work on boards, ownership, incentives, and performance; sustainability-oriented groups connect ESG disclosure with social and environmental outcomes; and newer digital-governance collaborations examine data, artificial intelligence, platforms, and algorithmic accountability. These communities overlap, but the links among them remain less dense than the links within each stream.

Institutional participation reflects the same disciplinary spread. Business and management schools supply much of the output, while economics, finance, law, information-systems, and sustainability units extend the agenda in different directions. Universities and research institutes with established management programs often act as connecting nodes because the restructuring question cuts across organizational design, strategy, regulation, and technology.

The geographic map likewise combines established and emerging research settings. Economies with mature capital markets have a long record of work on investor protection, boards, executive incentives, and market monitoring. Contributions from emerging economies increasingly address state ownership, family control, institutional transition, mixed ownership, and the practical difficulties of modernization. Cross-country links are valuable here because apparently similar governance devices can operate differently under different legal and institutional conditions.

Journal distribution shows the same expansion. Research on ownership, boards, control, and performance remains concentrated in finance, accounting, management, strategy, and corporate-governance outlets. ESG work has strengthened sustainability and corporate-responsibility journals, while studies of data, platforms, cyber risk, and automated decisions increasingly appear in information-systems and technology-management publications.

The keyword network contains five broad areas, but their borders are porous. The established core joins ownership, boards, agency, incentives, control, and performance. A second area connects stakeholder arguments with responsibility, sustainability, ESG, and disclosure. A technology-oriented area includes digital transformation, data, artificial intelligence, platforms, algorithms, innovation, and cybersecurity. Audit, compliance, risk, crisis response, and resilience form another concentration. The remaining terms concern strategy, organizational change, dynamic capabilities, and innovation governance. What is most notable in recent records is not the existence of these groups, but the frequency with which a single article draws language from two or more of them.

Clustering produces a similar, though not identical, picture. The main groupings concern board and ownership arrangements; agency and incentive problems; stakeholder responsibility; ESG and sustainable development; digital transformation and governance innovation; compliance and risk; and strategy, change, and resilience. Their coexistence confirms that restructuring is a meeting point for several literatures rather than a homogeneous subfield.

The co-cited references show why these keyword areas remain connected. Agency scholarship supplies the conceptual language for delegation, board monitoring, executive pay, and control. Responsibility and legitimacy are grounded more heavily in stakeholder and institutional work. Research on strategic resources and dynamic capabilities explains how governing arrangements affect renewal. A newer reference set addresses situations in which data, algorithms, platforms, and dependent external participants become part of the authority structure of the business.

One feature of the timeline deserves emphasis: later themes are layered onto earlier ones.

Research on ownership, boards, and agency does not recede when stakeholder or institutional analysis becomes more visible. Instead, control and strategy are added, followed by ESG, data governance, platforms, compliance, sustainability, and resilience. The development of the field is therefore best described as a widening set of connections around a durable core, with subjects once assigned to separate literatures now appearing in the same studies.

4.3 Frontier Trends Analysis

A governance change may occur even when no formal reporting line is altered. Once decisions rely on data pipelines, predictive models, or infrastructure supplied by another organization, practical influence shifts toward those who design the system, permit access, and explain its output. The additional information may strengthen monitoring, but it can also make accountability harder to locate, particularly when a model is opaque or a vendor controls a critical component. A privacy breach, discriminatory classification, cyber incident, or automated decision without an effective appeal route should therefore be examined as a failure of governance as well as technology. Oversight needs identifiable data rights, named responsibility for models, genuine human review, and a clear escalation path when system behavior differs from what the organization authorized (Alkaraan et al., 2022; Cai et al., 2023; Fang et al., 2023; F. Wu et al., 2021; Jiang & Jin, 2022; S. Wu & Li, 2023; Yuan et al., 2021; Zhao et al., 2021; Zhao & Cai, 2023).

The same distinction between appearance and operation is becoming central in ESG research. Extensive disclosure may improve transparency, yet it does not show whether an environmental or social concern changed a proposed investment, the level of risk the firm would accept, an executive's evaluation, or a strategic priority (Friede et al., 2015). ESG becomes part of governance when it is repeatedly used in those decisions and leaves evidence in board materials, approval records, performance reviews, and incentive arrangements. Where the firm departs from a public commitment, the departure should be identifiable, explained, and subject to review rather than treated as a minor inconsistency in reporting (Aguilera et al., 2021; Chen & Zhang, 2023; Khan, 2022; Ma et al., 2024; Martiny et al., 2024; P. Wu et al., 2023; Q. Wu et al., 2024; Truant et al., 2023; Wang et al., 2023).

A parallel development is the search for workable stakeholder governance. Employees, customers, suppliers, creditors, investors, public agencies, communities, and the natural environment do not make equivalent claims, nor can every claim be satisfied at once. The governance challenge is therefore procedural as well as ethical: firms need credible channels for consultation, disclosure, contestation, and trust building while retaining a coherent strategic direction.

Platform businesses make governance boundaries especially difficult to draw. Their value is produced through the coordinated activity of users, merchants, developers, advertisers, service providers, and public authorities, many of whom are not employees or subsidiaries. The platform nevertheless sets the technical and contractual conditions under which they participate. Ranking rules, access criteria, incentives, data permissions, sanctions, and the distribution of value are therefore governance decisions, even when they are presented as product design. Research should examine how these choices allocate benefits and burdens and whether efficiency or innovation is being achieved at the expense of contestability and accountability.

The connection between compliance and resilience becomes visible when an incident refuses to stay inside one department. A cyber event, for example, may interrupt operations, create disclosure duties, affect suppliers, and damage reputation within a short period. Compliance specifies obligations and limits that remain binding; resilience concerns the organization's

capacity to continue making decisions and to recover while those obligations are being met. The two can pull in opposite directions. Procedures that are too rigid may obstruct an urgent response, whereas excessive discretion may allow a localized failure to spread. A useful research question is therefore which controls must remain non-negotiable and which procedures can be adapted when the event was not anticipated (Han et al., 2022; Shao & Wang, 2023; Tao et al., 2023; L. Wu, 2023; Zhang & Gu, 2024).

Innovation makes the trade-off visible in another form. Experimental projects consume resources without guaranteeing a return, so boards and senior managers cannot abandon oversight. Yet a sequence of centralized approvals may eliminate the trial, error, and local initiative on which innovation depends. The relevant governance choices concern the limits within which teams may take risks, the authority to support investments whose value will emerge slowly, and the manner in which unsuccessful projects are examined. Governance thereby shapes the space available for exploration before it serves as a mechanism for assigning blame.

Results obtained in mature capital markets require careful qualification before they are applied to emerging economies. The meaning of board independence, for instance, can change where ownership is concentrated, legal enforcement is uneven, the state is an important shareholder, or finance depends on long-standing relationships. Expectations concerning employment, community obligations, and political legitimacy may also alter the standards by which performance is judged. Comparative research should incorporate these conditions into its explanation rather than adding them as background variables after the fact. It should also remain open to governance arrangements developed locally that address problems not anticipated by theories built in other institutional settings (Fang et al., 2023; Wang et al., 2023; Zhao & Cai, 2023).

Across these fronts, the common problem is one of fit. A change in board authority can undermine an incentive arrangement; a new data system can weaken an established line of accountability; and an ESG commitment can remain symbolic when investment rules point in another direction. Governance restructuring must therefore be judged at the level of the whole configuration. The relevant question is whether objectives, decision rights, information, rewards, controls, and responsibility reinforce one another while leaving the organization able to adjust.

4.4 Theoretical and Practical Implications

These results do not displace agency theory; they place it within a wider explanatory landscape. Conflict between owners and managers remains important, but it is only one source of governance difficulty. Stakeholder claims, institutional constraints, strategic resources, digital infrastructure, ecosystem dependence, compliance duties, and the need to recover from disruption each expose a different weakness in a governing arrangement. Theoretical progress will depend less on adding these perspectives to a list than on specifying the conditions under which they complement one another and the situations in which they lead to incompatible recommendations.

The maps also suggest that governance should be studied as an ongoing process. Formal committees and reporting lines may remain unchanged even while information moves through new channels, discretion shifts to different actors, and accountability becomes harder to trace. Such changes often accumulate through responses to technology, regulation, competition, or public criticism rather than through a single announced reform. Restructuring therefore includes the smaller adjustments by which an organization keeps its governing system workable. This process view offers a more direct route to studying organizational learning and the development of resilience over time.

For managers and boards, the practical implication is not to answer every new risk by

creating another committee. The more demanding task is to make existing responsibilities connect. Internal control, compliance, risk, stakeholder engagement, ESG, digital oversight, and strategy should not become parallel administrative tracks that meet only after a failure. Decision makers need to be able to follow an issue across them: who controls the data, where a public commitment changes resource allocation, how an external concern reaches deliberation, and whether a disruption review produces a later change in routine. Governance quality is visible in those connections and corrections, not in the number of formal bodies on the organization chart.

4.5 Limitations and Future Research Directions

The interpretation is subject to several limitations. First, the corpus is drawn mainly from the Web of Science Core Collection; studies available only through Scopus, CNKI, CSSCI, or specialized databases are consequently absent. Second, the search period, language, document types, subject filters, and query terms determine which records enter the analysis before any network is produced. Third, citation counts and network links measure visibility and association, not the quality of a theory or the effectiveness of a governance practice. Finally, software can calculate and display relationships, but researchers still decide how clusters are named and what an apparent emerging theme means. The maps should therefore be read as structured evidence for interpretation rather than as self-explanatory findings.

Future studies would benefit from treating governance devices as parts of a configuration. Digital monitoring, for example, may improve accountability only when control of the underlying data is transparent and a model's decision can be challenged. Stakeholder participation may expose risks before they become costly, yet the same arrangement could slow action during an emergency. These possibilities can be examined through comparative studies of restructuring episodes across ownership forms and institutional settings. Outcomes should extend beyond short-term finance to include innovation, ESG performance, recovery, and the persistence of value after reform. Emerging economies, disputes over algorithmic responsibility and data rights, cyber incidents, platform dependence, and organizational learning after crisis provide particularly informative settings (Cai et al., 2023; Donthu et al., 2021; Jiang, 2022; Mukherjee et al., 2022; Verhoef et al., 2021).

5. Conclusion and Suggestion

The literature reviewed here has moved well beyond its original emphasis on controlling agency problems through ownership, boards, incentives, monitoring, and internal control. Stakeholder and institutional research expanded the range of interests and settings that governance must consider; strategic and organizational perspectives connected governing arrangements with resources and change. More recent studies bring ESG commitments, data and algorithms, platform relations, compliance, innovation, and resilience into the same discussion. No single theory now organizes the whole field. What links these studies is a concern with whether authority, information, responsibility, accountability, and the capacity to adapt remain mutually consistent. Adding mechanisms one by one is unlikely to achieve that consistency. Because the present conclusions depend on one principal database, a defined search strategy, language and document restrictions, and interpretive bibliometric methods, they should be tested through multi-database reviews, close reading, institutional comparison, and direct empirical study of governance configurations.

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References

- Aguilera, R. V., Aragón-Correa, J. A., Marano, V., & Tashman, P. A. (2021). The corporate governance of environmental sustainability: A review and proposal for more integrated research. *Journal of Management*, 47(6), 1468-1497. <https://doi.org/10.1177/0149206321991212>
- Alkaraan, F., Albitar, K., Hussainey, K., & Venkatesh, V. G. (2022). Corporate transformation toward Industry 4.0 and financial performance: The influence of environmental, social, and governance (ESG). *Technological Forecasting and Social Change*, 175, 121423. <https://doi.org/10.1016/j.techfore.2021.121423>
- Aria, M., & Cuccurullo, C. (2017). Bibliometrix: An R-tool for comprehensive science mapping analysis. *Journal of Informetrics*, 11(4), 959-975. <https://doi.org/10.1016/j.joi.2017.08.007>
- Barney, J. (1991). Firm resources and sustained competitive advantage. *Journal of Management*, 17(1), 99-120. <https://doi.org/10.1177/014920639101700108>
- Berle, A. A., & Means, G. C. (1932). *The modern corporation and private property*. New York, NY: Macmillan.
- Cai, C., Tu, Y., & Li, Z. (2023). Enterprise digital transformation and ESG performance. *Finance Research Letters*, 58(Part D), 104692. <https://doi.org/10.1016/j.frl.2023.104692>
- Chen, C. (2006). CiteSpace II: Detecting and visualizing emerging trends and transient patterns in scientific literature. *Journal of the American Society for Information Science and Technology*, 57(3), 359-377. <https://doi.org/10.1002/asi.20317>
- Chen, H., & Zhang, L. (2023). ESG 表现、数字化转型与企业价值提升 [ESG performance, digital transformation and firm value enhancement]. *Journal of Zhongnan University of Economics and Law*, (3), 136-149. [In Chinese].
- DiMaggio, P. J., & Powell, W. W. (1983). The iron cage revisited: Institutional isomorphism and collective rationality in organizational fields. *American Sociological Review*, 48(2), 147-160. <https://doi.org/10.2307/2095101>
- Donaldson, T., & Preston, L. E. (1995). The stakeholder theory of the corporation: Concepts, evidence, and implications. *Academy of Management Review*, 20(1), 65-91. <https://doi.org/10.5465/amr.1995.9503271992>
- Donthu, N., Kumar, S., Mukherjee, D., Pandey, N., & Lim, W. M. (2021). How to conduct a bibliometric analysis: An overview and guidelines. *Journal of Business Research*, 133, 285-296. <https://doi.org/10.1016/j.jbusres.2021.04.070>
- Fama, E. F., & Jensen, M. C. (1983). Separation of ownership and control. *Journal of Law and Economics*, 26(2), 301-325. <https://doi.org/10.1086/467037>
- Fang, M., Nie, H., & Shen, X. (2023). Can enterprise digitization improve ESG performance? *Economic Modelling*, 118, 106101. <https://doi.org/10.1016/j.econmod.2022.106101>
- Freeman, R. E. (1984). *Strategic management: A stakeholder approach*. Boston, MA: Pitman.

- Friede, G., Busch, T., & Bassen, A. (2015). ESG and financial performance: Aggregated evidence from more than 2000 empirical studies. *Journal of Sustainable Finance & Investment*, 5(4), 210-233. <https://doi.org/10.1080/20430795.2015.1118917>
- Han, G., Chen, T., & Liu, T. (2022). 数字化转型与企业产能利用率——来自中国制造企业的经验发现 [Digital transformation and enterprise capacity utilization: Empirical findings from Chinese manufacturing enterprises]. *Journal of Finance and Economics*, 48(9), 154-168. [In Chinese].
- Jensen, M. C., & Meckling, W. H. (1976). Theory of the firm: Managerial behavior, agency costs and ownership structure. *Journal of Financial Economics*, 3(4), 305-360. [https://doi.org/10.1016/0304-405X\(76\)90026-X](https://doi.org/10.1016/0304-405X(76)90026-X)
- Jiang, T. (2022). Mediation and moderation effects in causal inference empirical studies. *China Industrial Economics*, (5), 100-120. <https://doi.org/10.19581/j.cnki.ciejournal.2022.05.005> [In Chinese].
- Jiang, X., & Jin, J. (2022). 数字技术提升经济效率：服务分工、产业协同与数实孪生 [Digital technology improves economic efficiency: Service division, industrial collaboration and digital-real twinning]. *Management World*, 38(12), 9-26. [In Chinese].
- Khan, M. A. (2022). ESG disclosure and firm performance: A bibliometric and meta analysis. *Research in International Business and Finance*, 61, 101668. <https://doi.org/10.1016/j.ribaf.2022.101668>
- Kraus, S., Durst, S., Ferreira, J. J., Veiga, P., Kailer, N., & Weinmann, A. (2022). Digital transformation in business and management research: An overview of the current status quo. *International Journal of Information Management*, 63, 102466. <https://doi.org/10.1016/j.ijinfomgt.2021.102466>
- Lai, J., & Yan, Y. (2024). 数字化转型与企业集团权力配置：变革的力量 [Digital transformation and power allocation of corporate groups: The power of change]. *Journal of Shanghai University of Finance and Economics*, 26(2), 95-107. <https://doi.org/10.16538/j.cnki.jsufe.2024.02.007> [In Chinese].
- Ma, R., Wang, G., & Dou, J. (2024). ESG 表现与企业专业化分工——基于上市公司的证据 [ESG performance and enterprise specialization: Evidence based on listed companies in China]. *Journal of Finance and Economics*, 50(5), 19-33. <https://doi.org/10.16538/j.cnki.jfe.20240222.401> [In Chinese].
- Mahajan, R., Lim, W. M., Sareen, M., Kumar, S., & Panwar, R. (2023). Stakeholder theory. *Journal of Business Research*, 166, 114104. <https://doi.org/10.1016/j.jbusres.2023.114104>
- Martiny, A., Taglialatela, J., Testa, F., & Iraldo, F. (2024). Determinants of environmental social and governance (ESG) performance: A systematic literature review. *Journal of Cleaner Production*, 456, 142213. <https://doi.org/10.1016/j.jclepro.2024.142213>
- Mukherjee, D., Lim, W. M., Kumar, S., & Donthu, N. (2022). Guidelines for advancing theory and practice through bibliometric research. *Journal of Business Research*, 148, 101-115. <https://doi.org/10.1016/j.jbusres.2022.04.042>
- Shao, J., & Wang, L. (2023). 企业数字化转型能够抑制高管腐败吗？——基于中小股东参与治理视角 [Can corporate digital transformation curb executive corruption? From the perspective of minority shareholders' participation in governance]. *Journal of Shanghai University of Finance and Economics*, 25(2), 64-77. <https://doi.org/10.16538/j.cnki.jsufe.2023.02.005> [In Chinese].

- Tao, F., Wang, X., Xu, Y., & Zhu, P. (2023). 数字化转型、产业链供应链韧性与企业生产率 [Digital transformation, industrial chain and supply chain resilience, and enterprise productivity]. *China Industrial Economics*, (5), 118-136. <https://doi.org/10.19581/j.cnki.ciejournal.2023.05.012> [In Chinese].
- Teece, D. J., Pisano, G., & Shuen, A. (1997). Dynamic capabilities and strategic management. *Strategic Management Journal*, 18(7), 509-533. [https://doi.org/10.1002/\(SICI\)1097-0266\(199708\)18:7%3C509::AID-SMJ882%3E3.0.CO;2-Z](https://doi.org/10.1002/(SICI)1097-0266(199708)18:7%3C509::AID-SMJ882%3E3.0.CO;2-Z)
- Truant, E., Borlatto, E., Crocco, E., & Bhatia, M. (2023). ESG performance and technological change: Current state-of-the-art, development and future directions. *Journal of Cleaner Production*, 429, 139493. <https://doi.org/10.1016/j.jclepro.2023.139493>
- van Eck, N. J., & Waltman, L. (2010). Software survey: VOSviewer, a computer program for bibliometric mapping. *Scientometrics*, 84(2), 523-538. <https://doi.org/10.1007/s11192-009-0146-3>
- Verhoef, P. C., Broekhuizen, T., Bart, Y., Bhattacharya, A., Qi Dong, J., Fabian, N., & Haenlein, M. (2021). Digital transformation: A multidisciplinary reflection and research agenda. *Journal of Business Research*, 122, 889-901. <https://doi.org/10.1016/j.jbusres.2019.09.022>
- Vial, G. (2019). Understanding digital transformation: A review and a research agenda. *The Journal of Strategic Information Systems*, 28(2), 118-144. <https://doi.org/10.1016/j.jsis.2019.01.003>
- Wang, H., Wang, S., Zhang, C., & Guo, L. (2023). 数字化转型提高了企业 ESG 责任表现吗? ——基于 MSCI 指数的经验研究 [Does digital transformation improve ESG responsibility performance? An empirical study based on the MSCI index]. *Foreign Economics & Management*, 45(6), 19-35. <https://doi.org/10.16538/j.cnki.fem.20221128.202> [In Chinese].
- Wu, F., Hu, H., Lin, H., & Ren, X. (2021). 企业数字化转型与资本市场表现——来自股票流动性的经验证据 [Enterprise digital transformation and capital market performance: Empirical evidence from stock liquidity]. *Management World*, 37(7), 130-144. <https://doi.org/10.19744/j.cnki.11-1235/f.2021.0097> [In Chinese].
- Wu, L. (2023). 数字化转型对企业税收遵从的影响 [The impact of digital transformation on corporate tax compliance]. *Foreign Economics & Management*, 45(8), 17-33, 50. <https://doi.org/10.16538/j.cnki.fem.20230624.201> [In Chinese].
- Wu, P., Yang, K., Jiang, J., et al. (2023). 企业 ESG 表现会影响盈余价值相关性吗? [Does corporate ESG performance affect earnings value relevance?]. *Journal of Finance and Economics*, 49(6), 137-152, 169. <https://doi.org/10.16538/j.cnki.jfe.20230221.104> [In Chinese].
- Wu, Q., Shahbaz, M., & Bigerna, S. (2024). Does board gender diversity benefit for corporate ESG performance? Evidence from Germany. *Journal of Environmental Management*, 372, 123304. <https://doi.org/10.1016/j.jenvman.2024.123304>
- Wu, S., & Li, Y. (2023). A study on the impact of digital transformation on corporate ESG performance: The mediating role of green innovation. *Sustainability*, 15(8), 6568. <https://doi.org/10.3390/su15086568>
- Yuan, C., Xiao, T., Geng, C., & Sheng, Y. (2021). 数字化转型与企业分工: 专业化还是纵向一体化 [Digital transformation and enterprise division of labor: Specialization or vertical integration]. *China Industrial Economics*, (9), 137-155. <https://doi.org/10.19581/j.cnki.ciejournal.2021.09.007> [In Chinese].

- Zhang, S., & Gu, C. (2024). 供应链数字化与供应链韧性 [Supply chain digitization and supply chain resilience]. *Journal of Finance and Economics*, 50(7), 21-34. <https://doi.org/10.16538/j.cnki.jfe.20231017.101> [In Chinese].
- Zhao, C., Wang, W., & Li, X. (2021). 数字化转型如何影响企业全要素生产率 [How does digital transformation affect the total factor productivity of enterprises?]. *Finance & Trade Economics*, 42(7), 114-129. <https://doi.org/10.19795/j.cnki.cn11-1166/f.20210705.001> [In Chinese].
- Zhao, X., & Cai, L. (2023). Digital transformation and corporate ESG: Evidence from China. *Finance Research Letters*, 58(Part A), 104310. <https://doi.org/10.1016/j.frl.2023.104310>
- Zupic, I., & Čater, T. (2015). Bibliometric methods in management and organization. *Organizational Research Methods*, 18(3), 429-472. <https://doi.org/10.1177/1094428114562629>