American Journal of Advanced Multidisciplinary Innovation and Research (AJAMIR)

E-ISSN: XXXX-XXXX ● Website: www.ajamir.com ● Email: editor@ajamir.com

Managerial Attention Allocation in Data-Rich Environments

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Abstract

Data-rich organizations can observe operational activity with unprecedented granularity, yet greater information availability does not automatically improve managerial decision quality. Executives and middle managers routinely encounter dashboards, alerts, key performance indicators, analytical reports, messages, forecasts, meeting inputs, customer signals, and external intelligence that compete for finite cognitive attention. The managerial problem therefore shifts from obtaining sufficient information toward determining which information deserves attention, when it should receive attention, and how much managerial processing capacity should be devoted to it. This study develops a Managerial Attention Allocation System (MAAS) for data-rich organizational environments. The proposed framework integrates strategic-priority alignment, signal relevance, exception severity, attentional protection, information compression, and review-and-recovery mechanisms. A simulation-based explanatory design is adopted because no actual managerial calendar, dashboard-usage, communication, or decision-performance dataset was supplied. Five synthetic conditions representing attention-allocation maturity levels from 20% to 100% were evaluated.

In the modeled scenarios, the proportion of managerial attention directed toward high-priority issues increases from 46% to 88%, low-value attention consumption falls from 31% to 9%, median critical-decision delay decreases from 18.2 to 6.3 hours, and strategically important signals missed during the decision window decline from 28% to 8%. A mature scenario additionally allocates 32% of available managerial attention to strategic priorities, 24% to critical operational exceptions, 18% to people and talent matters, 14% to relevant external signals, and 12% to routine reporting. The findings indicate that effective management in data-rich settings depends less on maximizing information exposure than on designing structures that protect scarce attention and route consequential signals toward appropriate decision makers. The study contributes to the attention-based view of the firm by operationalizing attention allocation as a measurable organizational capability. All numerical results are simulated and should be interpreted as theoretically informed scenario evidence rather than empirical estimates.

Keywords: managerial attention, data-rich environments, information overload, managerial cognition, attention-based view, decision making, information filtering, organizational attention

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1. Introduction

Contemporary managerial work increasingly takes place within environments characterized by extensive data availability. Enterprise information systems, digital dashboards, analytical platforms, communication technologies, automated monitoring tools, and performance-reporting systems make large volumes of information accessible to managers across organizational levels. The central managerial constraint, however, does not disappear as information becomes more abundant. Herbert Simon's classic analysis of information-rich organizations established the fundamental proposition that increasing information creates scarcity in the attention required to process it. Managerial attention is consequently a finite organizational resource rather than an unlimited response to greater data availability.

The distinction between information availability and attention capacity has substantial implications for organizational decision making. Galbraith's information-processing perspective suggests that organizations must develop capacities appropriate to the level of informational uncertainty they face, while later information-overload research demonstrates that increasing quantity, complexity, diversity, and ambiguity of information can eventually exceed individual processing capacity. Eppler and Mengis' interdisciplinary review shows that information overload has been examined across organization science, management information systems, accounting, and marketing and is associated with a range of decision and performance problems. Roetzel's later review confirms the continuing relevance of overload in increasingly information-intensive environments.

The organizational significance of attention extends beyond individual cognitive efficiency. Ocasio's attention-based view of the firm argues that organizational behavior is shaped by the issues and answers to which decision makers allocate attention and by the structures, rules, resources, and relationships that channel those issues toward particular actors. Attention is therefore structurally distributed rather than determined only by individual preference. A manager may spend time on a metric not because it is objectively the most important signal but because reporting systems, meetings, incentives, escalation processes, and communication routines continuously place that metric in the manager's attentional field.

Data-rich environments intensify this structural problem. Dashboards can make hundreds of indicators simultaneously visible, automated systems can generate repeated alerts, communication platforms can interrupt concentrated work, and routine reporting can compete directly with strategic analysis. Experimental research by Speier, Valacich, and Vessey demonstrates that interruptions can have different consequences depending on task complexity and can reduce performance on complex decision tasks. Ocasio's later theoretical work similarly distinguishes several forms of organizational attention and emphasizes that attention is influenced by both top-down and stimulus-driven processes.

The present study therefore examines Managerial Attention Allocation in Data-Rich Environments as an organizational design challenge rather than merely an individual time-management problem. A Managerial Attention Allocation System is proposed to help organizations distinguish strategically consequential information from routine informational volume while retaining mechanisms through which unexpected signals can still reach managerial awareness. Because no empirical managerial-attention dataset was supplied, the analytical component is explicitly simulation based. The

study asks how increasing attention-allocation maturity could theoretically affect priority alignment, decision speed, distraction exposure, signal detection, and managerial attentional recovery.

2. Objectives of the Study

2.1 To Conceptualize Managerial Attention as a Scarce Organizational Resource

The first objective is to establish a managerial-attention framework appropriate for data-rich organizational environments. The framework moves beyond an assumption that more complete information automatically generates better managerial decisions. Simon's analysis of information abundance and Ocasio's attention-based view jointly suggest that information systems should be evaluated partly by how they allocate scarce decision-maker attention rather than simply by how much information they deliver.

The present study consequently defines managerial attention allocation as the deliberate distribution of finite managerial cognitive engagement across competing strategic, operational, human, and environmental issues according to their consequence, urgency, uncertainty, and decision relevance. This definition distinguishes attention allocation from general workload because two managers working an equal number of hours can devote very different proportions of cognitive engagement to strategically consequential matters.

2.2 To Develop a Managerial Attention Allocation Maturity Framework

The second objective is to develop a measurable framework capable of distinguishing information-rich but attention-poor organizations from organizations that systematically govern managerial attention. Data abundance becomes problematic when information competes for managerial awareness without sufficient filtering, prioritization, and escalation rules.

The proposed maturity framework therefore incorporates six dimensions: strategic-priority alignment, signal relevance, exception severity, attentional protection, information compression, and review-and-recovery capability. These dimensions recognize that effective allocation requires both selection and protection. Managers must identify which issues deserve attention while also preventing low-value informational demands from continuously displacing those priorities.

2.3 To Examine Simulated Decision and Attention Outcomes

The third objective is to examine theoretically plausible organizational outcomes associated with increasing attention-allocation maturity. The simulated analysis evaluates high-priority attention alignment, low-value information consumption, critical-decision delay, missed consequential signals, and attentional recovery after interruptions.

The analytical values do not represent observations from real executives or organizations. They are structured scenarios constructed to translate the theoretical framework into measurable propositions. Future organizational studies could test these relationships using calendar data, dashboard logs, communication metadata, decision timestamps, managerial surveys, and structured attention diaries.

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3. Review of Literature

3.1 Scarcity of Attention and Information Overload

Simon provided an early conceptual foundation for attention management by demonstrating the paradox created by information abundance: when information becomes plentiful, the human capacity required to process it becomes comparatively scarce. This insight shifts organizational design away from maximizing information supply toward improving the allocation of attention among competing information sources.

Galbraith's information-processing perspective provides a complementary organizational explanation. Organizations facing greater uncertainty require greater information-processing capacity, but structural mechanisms are required to manage this requirement rather than simply directing every informational input toward senior managers. His framework therefore established an important connection among environmental complexity, information-processing needs, and organizational design.

Information-overload research developed these ideas further. Eppler and Mengis synthesized several decades of work across business disciplines and identified information characteristics, personal factors, task and process characteristics, organizational design, and technology as important components of overload. Roetzel's later review demonstrates that information overload continued to be a substantial research issue in business administration and related fields as digital information availability increased.

The managerial implication is not that organizations should deliberately keep managers uninformed. Insufficient information can also undermine judgment. The relevant design problem is achieving appropriate informational selectivity: enough information to recognize material changes and evaluate alternatives, but not so much undifferentiated input that decision-relevant signals compete unsuccessfully with routine informational noise.

3.2 Attention-Based View and Organizational Attention Structures

Ocasio's attention-based view provides the central theoretical foundation for this study. The theory proposes that organizational action depends substantially on how decision makers distribute attention among available issues and answers. Importantly, that distribution is shaped by organizational structures and communication processes rather than arising solely from individual preferences.

Research applying this perspective demonstrates that managerial attention can influence organizational adaptation. Cho and Hambrick found that top-management-team characteristics were associated with strategic change through managerial attention in their analysis of the airline industry's response to deregulation. Eggers and Kaplan similarly showed that managerial cognition and the direction of CEO attention were associated with differences in incumbent firms' responses to technological change.

Ocasio later distinguished attentional perspective, attentional engagement, and attentional selection, emphasizing that organizational attention is not a single process. Joseph and Ocasio further examined how organizational architecture shapes the integration of attention across governance channels, while Ocasio, Laamanen, and Vaara connected communication processes with attention dynamics and strategic change.

These studies imply that dashboards, review meetings, performance systems, escalation protocols, and managerial communication routines function as attention structures. What appears

repeatedly on a senior-management agenda receives organizational visibility, whereas important developments excluded from established channels may remain unnoticed despite existing somewhere within organizational data.

3.3 Interruptions, Signal Competition, and Decision Quality

Managerial attention is additionally affected by interruptions. Data-rich environments increase not only the quantity of accessible information but also the frequency with which information can demand immediate attention. Alerts, email notifications, instant messages, dashboard warnings, unscheduled requests, and recurring status communications can fragment periods originally intended for complex analysis.

Speier, Valacich, and Vessey's experimental research found that interruptions could facilitate simpler activities while impairing performance on complex decision tasks, with interruption characteristics influencing the consequences. Their work provides an important caution against designing managerial systems in which every newly generated signal is treated as equally deserving of immediate attention.

The distinction between routine and complex managerial work is therefore critical. A simple operational exception may appropriately trigger an immediate notification when predetermined limits are exceeded. Strategic evaluation, acquisition analysis, restructuring decisions, major talent decisions, and ambiguous market interpretation require protected cognitive engagement. A mature attention system must consequently distinguish urgency from importance rather than assuming that the most recently generated signal deserves priority.

Communication processes also influence which organizational signals acquire sufficient visibility to alter strategic action. Ocasio, Laamanen, and Vaara argue that communication and attention dynamics are interrelated in strategic change, reinforcing the idea that managerial attention can be shaped by the channels through which issues are discussed and interpreted.

4. Research Methodology

4.1 Research Design and Simulation Logic

The study employs a simulation-based explanatory research design. No actual executive calendars, digital-behavior records, email logs, meeting transcripts, dashboard analytics, decision-performance datasets, or attention-tracking observations were supplied. Creating inferential empirical results under these conditions would misrepresent the study's evidentiary basis. The analytical values are therefore explicitly synthetic.

Five organizational scenarios were constructed corresponding to attention-allocation maturity levels of 20%, 40%, 60%, 80%, and 100%. The 20% scenario represents a reactive data environment characterized by extensive exposure to unfiltered information, limited prioritization, and frequent interruption. The intermediate scenarios progressively introduce signal classification, exception thresholds, decision ownership, protected analytical periods, and structured review routines. The 100% maturity scenario represents a highly developed but intentionally imperfect attention-allocation system.

No statistical significance tests, confidence intervals, or causal coefficients are reported. Synthetic scenario values cannot legitimately establish population effects. The analysis instead uses

transparent comparative measures that could later be operationalized using real organizational observations.

4.2 Managerial Attention Allocation Maturity Index

The proposed Managerial Attention Allocation Maturity Index (MAAMI) is defined as:

[MAAMI = 0.20SP + 0.20SR + 0.15ES + 0.20AP + 0.15IC + 0.10RR]

where (SP) denotes strategic-priority alignment, (SR) signal relevance, (ES) exception severity classification, (AP) attentional protection, (IC) information compression, and (RR) review-and-recovery capability.

Strategic-priority alignment and attentional protection receive relatively high weights because an organization cannot manage attention effectively if high-priority issues remain unclear or if managers have no protected capacity to engage with them. Signal relevance also receives substantial weight because increasingly sophisticated data systems can generate large quantities of analytically valid but managerially nonessential information.

Table 1: Operationalization of the Managerial Attention Allocation Framework

Dimension	Weight	Operational Meaning	Illustrative Organizational Practice
Strategic-Priority Alignment	0.20	Degree to which managerial attention corresponds with explicit strategic priorities	Priority maps, agenda alignment, strategic review windows
Signal Relevance	0.20	Ability to distinguish decision-relevant information from general data availability	Role-based dashboards, relevance rules, decision-specific metrics
Exception Severity	0.15	Classification of signals according to consequence and urgency	Escalation thresholds, severity levels, exception routing
Attentional Protection	0.20	Protection of cognitive capacity required for complex managerial work	Notification controls, protected analysis periods, meeting discipline
Information Compression	0.15	Transformation of large data volumes into interpretable decision signals	Summaries, trend indicators, variance explanations, exception reports
Review and Recovery	0.10	Ability to reassess priorities and restore concentration after interruption	Attention reviews, deferred queues, recovery periods

Source: Author-developed framework informed by Simon's information-rich organization concept, Ocasio's attention-based view, information-overload literature, and interruption research.

The index does not treat attention protection as complete isolation. Organizational decision makers require access to unexpected information because excessive filtering could generate strategic blindness. The objective is controlled permeability: important exceptions must cross attentional boundaries while routine information is processed through lower-intensity channels.

The weighting scheme is theoretical and has not been psychometrically validated. Future empirical research should use expert review, pilot testing, factor analysis, reliability assessment, and predictive validation before the index is employed as an organizational diagnostic instrument.

4.3 Outcome Measures and Analytical Procedure

Five principal outcome measures were selected. High-priority attention alignment represents the proportion of modeled managerial attention devoted to issues classified as strategically or operationally consequential. Low-value attention consumption captures attention spent on information that requires no managerial decision or could be handled at a lower organizational level. Critical-decision delay represents the median interval between recognition of a consequential issue and focused managerial processing.

Missed consequential signals represent high-priority developments that fail to receive attention inside the relevant decision window. Attention recovery effectiveness represents the simulated proportion of interrupted high-complexity tasks successfully resumed without substantial loss of decision context. These indicators capture both the allocation and continuity of managerial cognitive resources.

A separate mature-state attention portfolio was constructed for Graph 1. The distribution assigns 32% of attention to strategic priorities, 24% to critical operational exceptions, 18% to people and talent issues, 14% to relevant external signals, and 12% to routine reporting. These percentages are illustrative design values rather than prescriptions that every organization should adopt.

5. Analysis

5.1 Priority Alignment and Reduction of Low-Value Attention

The simulated results show a consistent improvement in the alignment of managerial attention with organizational priorities. In the lowest-maturity scenario, only 46% of modeled attention is directed toward high-priority issues. The proportion increases to 57% at 40% maturity, 68% at 60%, 79% at 80%, and 88% in the mature condition.

This pattern reflects the structural principle underlying the attention-based view: organizational arrangements influence which issues reach and retain decision-maker attention. Improved performance is not modeled as an increase in managers' total cognitive capacity. Rather, the same finite attention is allocated more selectively through clearer decision ownership, relevance filtering, and reduced competition from routine informational demands.

Low-value attention consumption falls simultaneously from 31% to 9%. The result highlights an important distinction between informational value and managerial relevance. A metric can be accurate and useful somewhere in the organization without requiring recurring senior-management attention.

Mature systems therefore route information according to decision responsibility instead of maximizing visibility at every managerial level.

Table 2: Simulated Outcomes Across Managerial Attention Allocation Maturity Levels

Attention-Allocation Maturity	High-Priority Attention Alignment	Low-Value Attention Consumption	Median Critical-Decision Delay	Consequential Signals Missed	Attention Recovery Effectiveness
20%	46%	31%	18.2 hours	28%	39%
40%	57%	26%	15.0 hours	23%	51%
60%	68%	20%	11.7 hours	17%	63%
80%	79%	14%	8.5 hours	12%	75%
100%	88%	9%	6.3 hours	8%	84%

Note: All values are synthetic scenario outputs developed for methodological demonstration. They do not represent measurements from real managers or organizations.

5.2 Decision Delay and Consequential Signal Detection

Critical-decision delay decreases from 18.2 hours under fragmented attention allocation to 6.3 hours under the mature condition. This simulated improvement does not imply that every managerial decision should be accelerated. Some strategically important decisions appropriately require deliberation. The modeled variable instead represents avoidable delay occurring before the relevant manager gives focused consideration to an already recognized high-priority issue.

Signal prioritization can reduce such delays by preventing consequential information from entering the same undifferentiated queue as routine status updates. Ocasio's attention-based perspective emphasizes that issues gain organizational consequence partly through the structures that channel them toward decision makers, while Joseph and Ocasio demonstrate the significance of governance channels in integrating organizational attention.

The proportion of consequential signals missed within the modeled decision window falls from 28% to 8%. Importantly, this improvement is achieved without assuming that managers personally examine all incoming information. The model instead relies on distributed attention: analytical systems, functional specialists, and lower-level managers identify and classify signals before escalating those meeting defined thresholds.

This architecture avoids a common contradiction in data-rich management. Organizations frequently invest in analytics to improve awareness but subsequently overload the managers expected to consume the additional output. Effective attention allocation therefore requires information-processing

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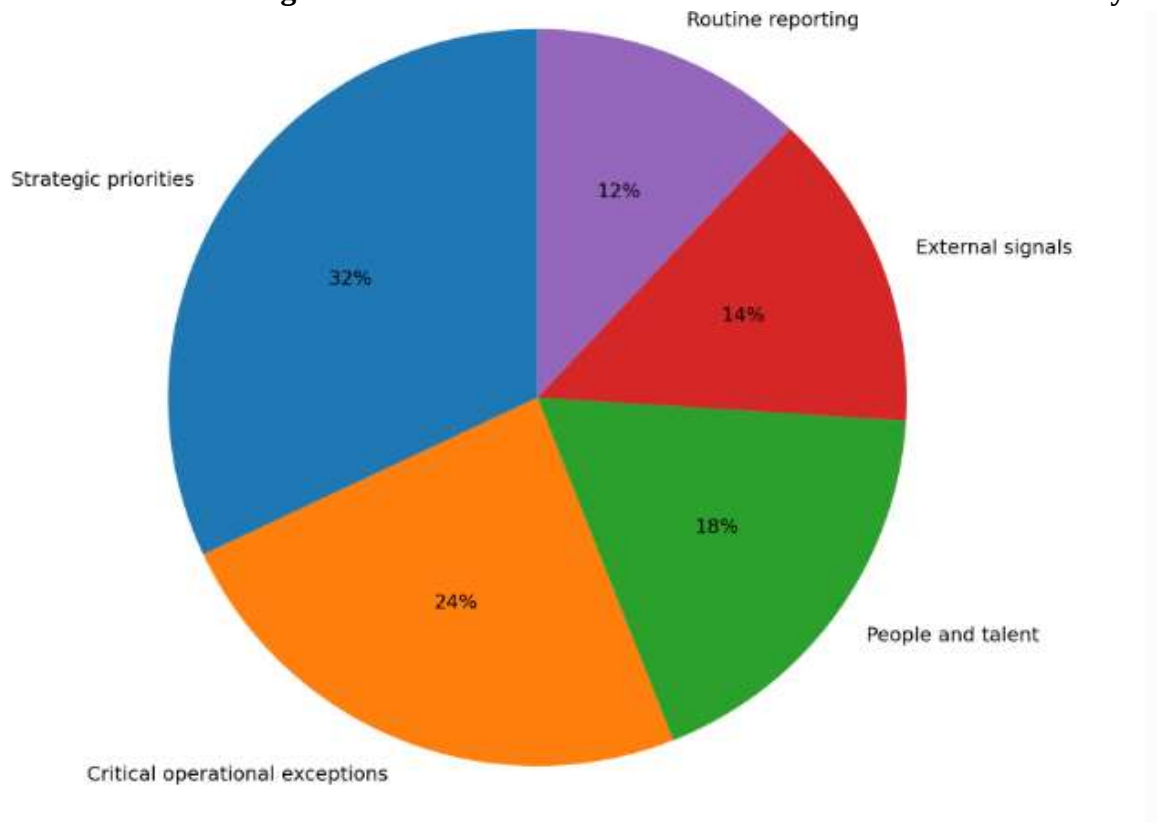
capacity to be distributed throughout the organization rather than concentrated at senior levels, a proposition compatible with earlier organizational information-processing theory.

5.3 Attention Recovery and the Mature Allocation Portfolio

Attention recovery effectiveness increases from 39% to 84% across the simulated scenarios. Recovery matters because even appropriately prioritized work can be damaged when repeated interruptions break complex cognitive processing. Speier and colleagues found that interruption effects depend on task characteristics and that complex tasks can experience performance deterioration under interruption.

The mature system therefore does not eliminate interruption but distinguishes between interruptible and protected work. High-severity operational exceptions can still interrupt strategic work when the expected cost of delay exceeds the cost of attentional disruption. Routine requests, informational updates, and low-severity alerts are placed in deferred channels that managers can review at appropriate intervals.

Graph 1: Simulated Managerial Attention Portfolio in a Mature Attention-Allocation System



Supporting data: Strategic priorities = 32%; critical operational exceptions = 24%; people and talent = 18%; external signals = 14%; routine reporting = 12%.

Interpretation: The simulated pie chart illustrates a mature allocation portfolio in which 56% of managerial attention is protected for strategic priorities and material operational exceptions, while routine reporting occupies a comparatively limited share.

Key finding: Data-rich management becomes more effective when organizations deliberately allocate managerial attention rather than allowing information volume, alert frequency, or meeting routines to determine what receives focus.

6. Discussion

6.1 The Managerial Problem Is Attention Allocation, Not Data Maximization

The first major implication of the study is that greater data availability should not be treated as an organizational objective in itself. Simon's information-rich-world argument remains directly relevant because each additional report, metric, alert, or communication competes for some amount of recipient attention. The decision to expose managers to additional information therefore has an opportunity cost: attention given to one signal cannot simultaneously be devoted to another complex managerial task.

This argument does not diminish the value of analytics. Data can substantially improve managerial understanding when it reduces uncertainty, identifies patterns, exposes exceptions, or challenges inaccurate assumptions. The problem occurs when analytics production and attention allocation are designed separately. A technically sophisticated dashboard containing numerous valid indicators can still be managerially ineffective if important signals are visually or cognitively indistinguishable from routine variation.

Information-overload literature reinforces this point by showing that overload is not simply a matter of absolute quantity but also involves information characteristics, processing requirements, available time, organizational design, and individual limitations. Consequently, an effective managerial system should evaluate information not only according to whether it can be collected but according to whether it changes a decision, triggers an exception, informs learning, or reduces a consequential uncertainty.

The proposed framework therefore replaces a data-maximization logic with an attention-return logic. Information demanding recurring managerial attention should justify the cognitive resources it consumes. Metrics that repeatedly generate no decision may require delegation, aggregation, reduced frequency, or removal from senior dashboards rather than continued accumulation.

6.2 Attention Architecture as an Organizational Design Capability

The second implication is that attention management cannot be left entirely to individual managerial discipline. Ocasio's theoretical framework emphasizes that attention is structurally distributed through organizational rules, resources, relationships, and communication processes. A manager may attempt to focus strategically but still operate inside a system that schedules excessive meetings, generates uncontrolled alerts, escalates routine matters upward, and evaluates leaders through an expanding collection of metrics.

Organizational architecture therefore determines part of the attention environment. Decision-right structures influence which matters reach senior managers. Dashboard design influences which indicators remain perceptually visible. Meeting agendas determine which issues receive recurring collective discussion. Reporting frequency determines how often a metric competes for attention. Escalation rules influence whether routine variation interrupts high-complexity work.

Joseph and Ocasio's historical analysis of organizational architecture demonstrates how governance channels integrate attention across organizational levels, while Ocasio, Laamanen, and Vaara emphasize the role of communication in attention dynamics and strategic change. These insights suggest that attention architecture can become a genuine organizational capability rather than merely a personal productivity technique.

A mature attention architecture should therefore define what must reach senior management, what should remain within functional decision channels, and what can be processed automatically or reviewed periodically. Such architecture preserves executive attention for issues requiring judgment that cannot be economically substituted by routine organizational processing.

6.3 Balancing Focus With Strategic Peripheral Vision

The third implication concerns a potential danger of attention optimization: excessive filtering. Organizations that protect managerial attention too aggressively may improve focus while becoming less sensitive to weak or unexpected environmental signals. Ocasio's later work distinguishes different attentional processes and emphasizes the combination of top-down and stimulus-driven attention. Mature attention allocation should therefore narrow noise without eliminating organizational curiosity.

External technological developments, regulatory shifts, emerging customer preferences, competitor behavior, reputational threats, and unconventional employee observations may initially appear outside established performance categories. A system that routes managerial attention only toward predefined strategic priorities could create attentional lock-in. The proposed mature portfolio consequently reserves 14% of simulated attention for external signals rather than allocating every available unit toward established strategy.

Cho and Hambrick's work demonstrates that managerial attention is related to organizational strategic response, while Eggers and Kaplan similarly connect the direction of managerial cognition with technological adaptation. The implication is that where attention is directed can shape not only decision efficiency but also what strategic possibilities organizations recognize.

Effective managerial attention allocation therefore requires a balance between focus and peripheral vision. Focus protects scarce cognitive capacity from routine competition. Peripheral vision ensures that unusual but consequential information can challenge current assumptions. An attention architecture should optimize this balance rather than pursuing maximum concentration as an end in itself.

7. Conclusion

Data-rich organizational environments do not eliminate managerial scarcity; they relocate it. As information becomes easier to generate, store, analyze, and distribute, managerial attention becomes increasingly important as the scarce resource through which information is converted into interpretation and action. Organizations can therefore possess more data and simultaneously become less capable of noticing what matters if informational supply grows faster than attentional governance.

This study developed a Managerial Attention Allocation System comprising strategic-priority alignment, signal relevance, exception severity, attentional protection, information compression, and review-and-recovery capability. The framework treats managerial attention as an organizationally

structured resource rather than merely an individual cognitive characteristic. It emphasizes that dashboards, reporting systems, meeting routines, escalation processes, and communication channels all influence where managerial cognition is directed.

The simulation demonstrates the theoretical logic of increasing attention-allocation maturity. High-priority attention alignment rises from 46% to 88%, low-value attention consumption declines from 31% to 9%, critical-decision delay decreases, consequential-signal loss becomes less frequent, and recovery after interruption improves. These numerical outcomes are entirely synthetic and should not be interpreted as predicted effect sizes for real organizations. Their purpose is to transform the conceptual framework into explicit propositions that can subsequently be evaluated empirically.

Future research should validate the MAAMI framework using longitudinal organizational data derived from managerial calendars, meeting agendas, communication metadata, dashboard interactions, alert histories, decision timestamps, and attention diaries. Experimental studies could examine how different dashboard architectures, notification thresholds, information-compression methods, and protected-attention routines affect managerial judgment under varying levels of decision complexity. Further research should also investigate the possibility that excessive attention filtering creates strategic blind spots. The central conclusion is that the competitive advantage of a data-rich organization does not arise from placing more information before managers; it arises from ensuring that scarce managerial attention reaches the issues where human judgment creates the greatest organizational value.

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