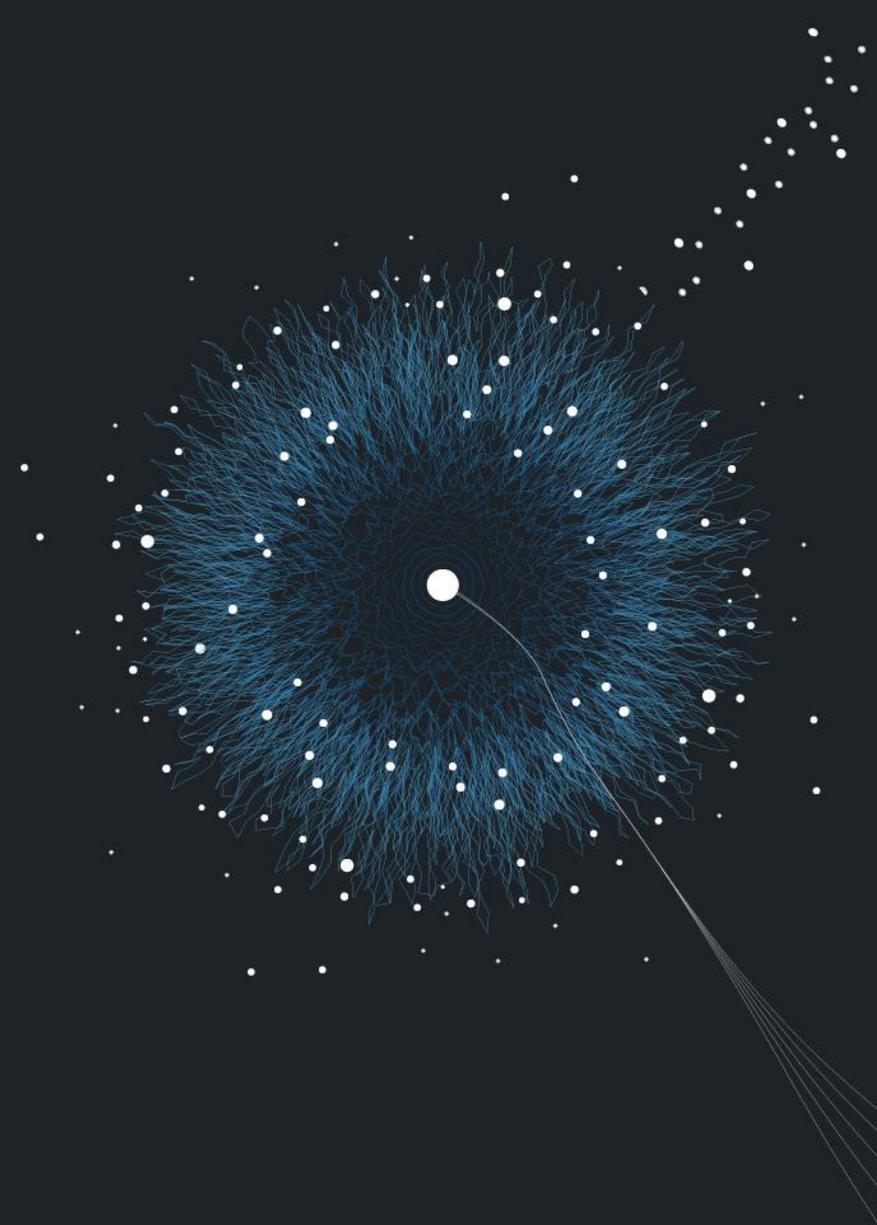


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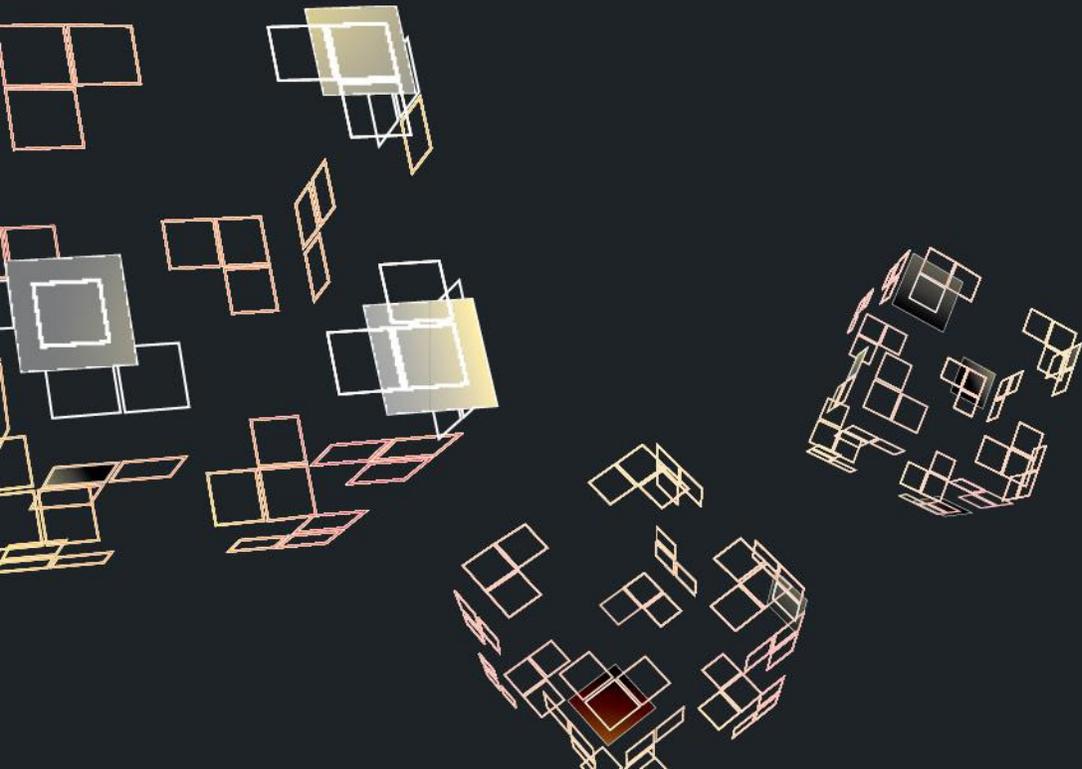
# LEADING WITH AI – HOW LEADERSHIP SHAPES TRUST, EXPLAINABILITY AND GOVERNANCE IN KNOWLEDGE-INTENSIVE WORK

MARC BONGARTZ · UNIVERSITY OF TWENTE · ISACA TECH TALK · FEBRUARY  
26



# TABLE OF CONTENTS

01. **Motivation, Research Context, and Framing**
02. **Methodological Foundation: Systematic Literature Review**
03. **Key Findings: Leadership, Trust & Explainability**
04. **Literature-Based Implications for Audit, IT Governance & Information Security**
05. **Key Takeaways and Discussion**  
Practical insights and concluding remarks



# 01 MOTIVATION, RESEARCH CONTEXT AND FRAMING



# OWNERSHIP & ACADEMIC CONTEXT

Leading with AI -  
How Leadership Shapes Trust, Explainability and  
Governance in Knowledge-Intensive Work

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# ARTIFICIAL INTELLIGENCE IN KNOWLEDGE-INTENSIVE DECISION-MAKING

Artificial intelligence is increasingly embedded in organizational decision-making..

1

In these contexts, AI systems support complex judgments rather than replacing human decision-makers. Decisions are made under conditions of uncertainty, professional discretion, and regulatory accountability..

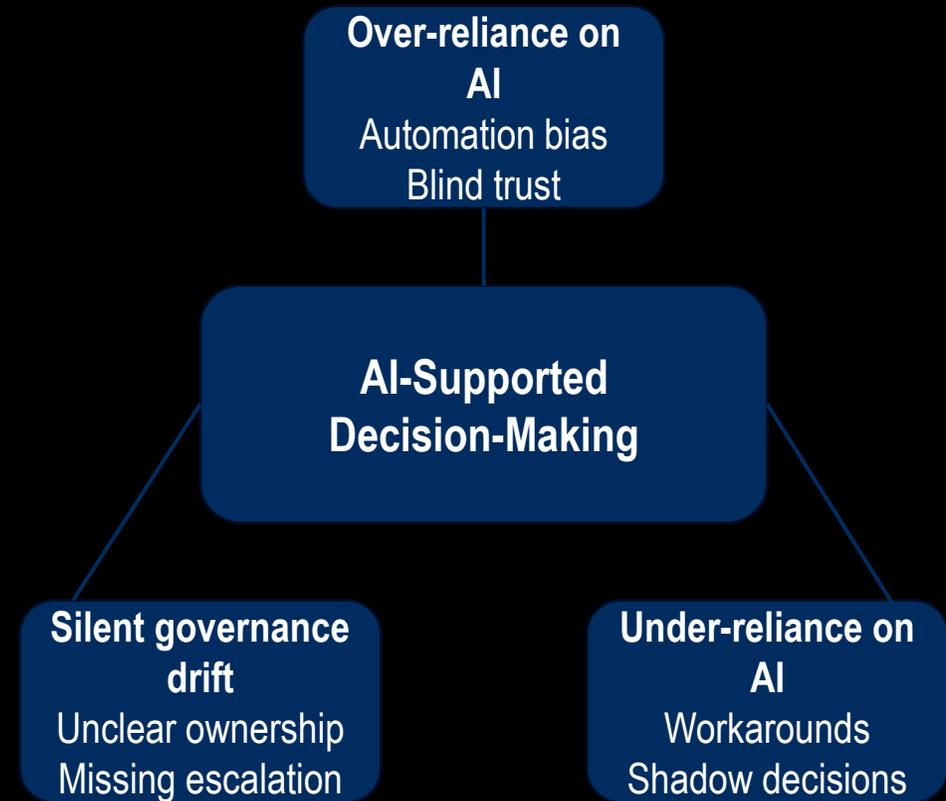
2

Explainable AI has therefore emerged as a prominent design principle, widely framed as a means to enable transparency, understanding, and trust in AI-supported decisions.

3

# WHY THIS MATTERS FOR ISACA PRACTITIONERS

- AI-supported decision-making rarely fails because of missing explanations or poor models alone. In practice, failures emerge when trust in AI is miscalibrated.
- Leadership shapes whether organizations drift toward blind reliance on AI, systematic distrust, or unclear responsibility. These patterns are not technical errors, but governance failures.
- The key role of leadership is therefore to actively calibrate trust by structuring decision rights, framing explanations, and defining accountability and escalation.



# THE TRUST PROBLEM BEHIND EXPLAINABLE AI



Explainable AI is often assumed to be sufficient for building trust in AI-supported decisions. However, empirical research shows that transparency does not reliably result in appropriate trust.



In practice, explanations may lead either to persistent skepticism or to uncritical over-reliance on AI outputs. Trust judgments are shaped not only by explanation quality, but by organizational context, professional norms, and accountability structures.



As a result, explainability can obscure responsibility, shift decision ownership, and create false confidence if it is not embedded in leadership and governance practices.

# RESEARCH QUESTION & ANALYTICAL SCOPE

Explainable AI is widely discussed as a technical solution for fostering trust in AI-supported decisions.

However, existing research offers limited insight into how trust actually emerges and stabilizes in organizational contexts.

Leadership is often acknowledged as contextual background, but rarely theorized as a central mechanism shaping trust in explainable AI.

This research examines how leadership practices shape trust in explainable AI within knowledge-intensive work environments.



02 **METHODOLOGICAL FOUNDATION:  
SYSTEMATIC LITERATURE REVIEW**



# METHODOLOGICAL APPROACH: SYSTEMATIC LITERATURE REVIEW



**Systematic literature review following established methodologies.**

Focus on leadership, trust, and explainable AI across disciplines.



**Structured database searches with transparent selection criteria.**

Analysis of key concepts, theoretical perspectives, and recurring patterns.



**Foundation for identifying research gaps**

and developing a leadership-centered perspective.

# ANALYTICAL FRAMEWORK AND CODING LOGIC

The identified literature was analyzed using a structured analytical framework.

The analysis focused on how trust, explainability, and leadership are conceptualized and related.

Key concepts, theoretical perspectives, and underlying assumptions were systematically coded.

Special attention was given to how leadership is framed: as a contextual factor or as an active mechanism.

The coding process enabled a cross-study synthesis and the identification of recurring patterns and gaps.

03 **KEY FINDINGS: LEADERSHIP, TRUST  
& EXPLAINABILITY**



# OVERVIEW OF DOMINANT RESEARCH STREAMS



Research on trust in explainable AI follows a small number of dominant perspectives. Most studies focus on technical explainability and user understanding as primary trust drivers.



A second stream conceptualizes trust mainly as an individual and psychological construct. Organizational and leadership-related perspectives appear less frequently and remain fragmented.



As a result, practical guidance for managing trust in high-stakes organizational contexts is limited.

# TECHNICAL EXPLAINABILITY PERSPECTIVE

The dominant research stream conceptualizes trust primarily as a function of technical explainability.

Trust is commonly assumed to increase as AI models become more transparent and understandable.

Explanations are treated as cognitive tools that enable users to assess model behavior and outputs.

Leadership and organizational context are largely treated as secondary or implicit factors rather than central mechanisms.

Selected research foundations:

Ribeiro et al. (2016); Doshi-Velez & Kim (2017); Guidotti et al. (2018)



# TRUST BEYOND EXPLAINABILITY: WHY LEADERSHIP MATTERS

**Explainable AI increases transparency, but transparency alone does not ensure appropriate trust.**

Prior research indicates that explanations can lead to both under-reliance and over-reliance on AI.

**In organizational practice, trust depends on how explanations are framed, legitimized, and embedded in decision processes.**

Leadership shapes whether AI outputs are treated as contestable reasons or as authoritative system recommendations.

**Trust in AI therefore emerges from leadership practices that structure accountability, decision rights, and appropriate reliance.**

This shifts the focus from explainability as a technical feature to trust as an organizational outcome.

Selected research foundations:

Mayer et al. (1995); McKnight et al. (2002); Langer et al. (2021); Bevilacqua et al. (2025)

# KEY LEADERSHIP INFLUENCE FACTORS ON TRUST IN AI

Leadership shapes trust in AI through a small number of recurring mechanisms, including the allocation of decision rights.

These mechanisms structure how AI is integrated into decision-making, how uncertainty is handled, and how accountability is assigned in practice.

The following framework synthesizes the key leadership influence factors identified across the literature.

Selected research foundations:

Weick (1995); Gioia & Chittipeddi (1991); Vial (2019); Hanelt et al. (2021); Bevilacqua et al. (2025).



# ALLOCATION OF DECISION RIGHTS: HUMAN VS. AI

The allocation of decision rights between humans and AI is a central leadership decision shaping trust in AI. Leaders define whether AI systems support human judgment, provide recommendations, or effectively replace human decision-making.

When decision rights remain implicit or ambiguous, organizations face increased risks of blind reliance on AI outputs or systematic distrust and workarounds.

Clear allocation of responsibility is therefore essential to ensure accountability, auditability, and effective AI governance.



Selected research foundations:

Parasuraman et al. (2000), Vial (2019), Hanelt et al. (2021), Bevilacqua et al. (2025)

# FRAMING OF EXPLANATIONS: REASONS VS. AUTHORITY

## Framing matters

How AI explanations are framed fundamentally shapes how they are interpreted and acted upon in organizational decision-making.

## Authority framing

When explanations are framed as authoritative, decision-makers tend to defer responsibility to the system. This increases automation bias and weakens accountability, particularly in high-stakes contexts.

## Reasons framing

In contrast, framing explanations as reasons supports sensemaking, dialogue, and contestability. Decision-makers integrate AI outputs with domain expertise and professional judgment

## Leadership implication

Framing explanations is a leadership practice that directly shapes trust calibration, accountability, and auditability in AI-supported decisions.

Selected research foundations: Weick (1995), Gioia & Chittipeddi (1991), Langer et al. (2021), Bevilacqua et al. (2025)

# HANDLING OF UNCERTAINTY, ERRORS, AND DISSENT

AI-supported decisions operate under conditions of uncertainty, incomplete information, and model limitations.

Leadership determines how uncertainty is acknowledged, how errors are interpreted, and whether dissent is permitted.

When uncertainty and errors are suppressed, organizations tend to conceal model limitations and discourage critical reflection.

This increases the risk of silent failures, automation bias, and unmanaged model risk.

In contrast, leadership practices that encourage transparency, error reporting, and constructive dissent support learning, oversight, and appropriate reliance on AI.

They are essential for auditability, incident management, and trustworthy AI governance..

Selected research foundations: Weick (1995), Edmondson (1999), Reason (1997), Bevilacqua et al. (2025).

# FROM LEADERSHIP PRACTICES TO ACCOUNTABILITY STRUCTURES



Leadership practices shape how accountability structures around AI are designed and enacted in organizations. Decision rights, framing of explanations, and handling of uncertainty jointly determine how responsibility, oversight, and escalation are organized.



When leadership practices remain implicit, accountability becomes fragmented and control responsibilities are blurred. This increases the risk of unmanaged model risk, unclear ownership, and ineffective auditability.



In contrast, explicit leadership practices enable clear role definitions, traceable decision paths, and effective escalation mechanisms. Such accountability structures form the foundation of trustworthy, governable, and auditable AI systems.

Selected research foundations: Weick (1995), Vial (2019), Hanelt et al. (2020), Bevilacqua et al. (2025)

# A LEADERSHIP-CENTERED MODEL OF TRUSTWORTHY AI GOVERNANCE

Trustworthy and governable AI emerges from the interaction between leadership practices, organizational structures, and technical systems. Leadership acts as the central mechanism linking explainability, accountability, and appropriate reliance on AI.

Decision rights, framing of explanations, and the handling of uncertainty shape how AI governance structures are enacted in practice. These leadership practices determine how responsibility, oversight, and escalation are organized around AI-supported decisions.

As a result, trust in AI is not a system property, but an outcome of leadership-centered governance design that integrates technical safeguards with human judgment.

Selected research foundations: Weick (1995), Vial (2019), Hanelt et al. (2021), Bevilacqua et al. (2025).



04 **LITERATURE-BASED IMPLICATIONS FOR  
AUDIT, IT GOVERNANCE & INFORMATION  
SECURITY**



# IMPLICATIONS FOR AUDIT

Leadership-centered governance reshapes what becomes auditable in AI-supported decision-making.

Audit focus shifts from technical model properties to decision architectures, accountability structures, and governance routines.

1

Auditors must assess not only whether controls exist, but how decision rights are allocated, how explanations are used, and how overrides are governed.

This requires evaluating leadership practices that structure responsibility, escalation, and professional judgment.

2

Key audit challenges emerge around traceability of decisions, attribution of responsibility, and detection of automation bias.

Effective audit therefore depends on the integration of technical evidence with organizational context and leadership behavior.

3

Leadership-centered governance transforms audit from control verification to the assessment of decision accountability in AI-supported systems.

4

# IMPLICATIONS FOR IT GOVERNANCE

1

Leadership-centered AI governance reshapes how IT governance structures are designed and enacted. Governance moves from managing systems to governing decision architectures and accountability relationships.

2

Effective IT governance requires explicit allocation of decision rights, clearly defined roles, and formal escalation paths for AI-supported decisions. Leadership practices determine whether governance principles are translated into enforceable routines or remain symbolic.

3

Key governance challenges arise around ownership of AI decisions, integration of AI into existing governance frameworks, and alignment between business, IT, and risk functions. Leadership-centered governance enables coherent decision-making across organizational boundaries and reduces fragmentation of responsibility.

# IMPLICATIONS FOR INFORMATION SECURITY

Leadership-centered AI governance reshapes how information security is operationalized in AI-supported decision environments. Security moves beyond protecting systems to safeguarding decision integrity, accountability, and controlled use of AI.

Governance & Responsibility  
Leadership Oversight · Escalation · Accountability

Effective information security depends on how leaders define acceptable use, handle uncertainty, and respond to errors and incidents. Leadership practices influence whether security controls support professional judgment or enforce blind reliance on AI outputs

Decision Layer  
Decision Integrity · Human Judgment · Contestability

Key security challenges emerge around automation bias, silent failure modes, model misuse, and inadequate incident escalation. Leadership-centered security governance integrates technical safeguards with human oversight and organizational responsibility.

Security Operations  
Monitoring · Logging · Incident Response

05 **KEY TAKEAWAYS  
AND DISCUSSION**



# KEY TAKEAWAYS FOR ISACA PRACTICE

## Takeaway 1:

**Leadership is a governance mechanism for AI.**

Trustworthy AI depends on how decision rights, accountability, and escalation are enacted.

## Takeaway 3:

**Audit, governance, and security converge around decision accountability.**

AI governance requires integrated oversight of decisions, not isolated controls.

## Takeaway 2:

**Explainability alone is insufficient.**

Leadership determines whether explanations support judgment or enforce compliance.

## Takeaway 4:

**Established governance and audit frameworks gain relevance when applied to decision architectures.**

Their value lies in enabling leadership-centered governance practices.

# CLOSING & DISCUSSION

## Closing Remarks & Discussion

Trustworthy AI is not achieved through technology alone. It emerges from leadership-centered governance that aligns decision-making, accountability, and oversight.

Thank you for your attention.

I look forward to your questions and discussion.

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- Business Transformation & AI Integration

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