

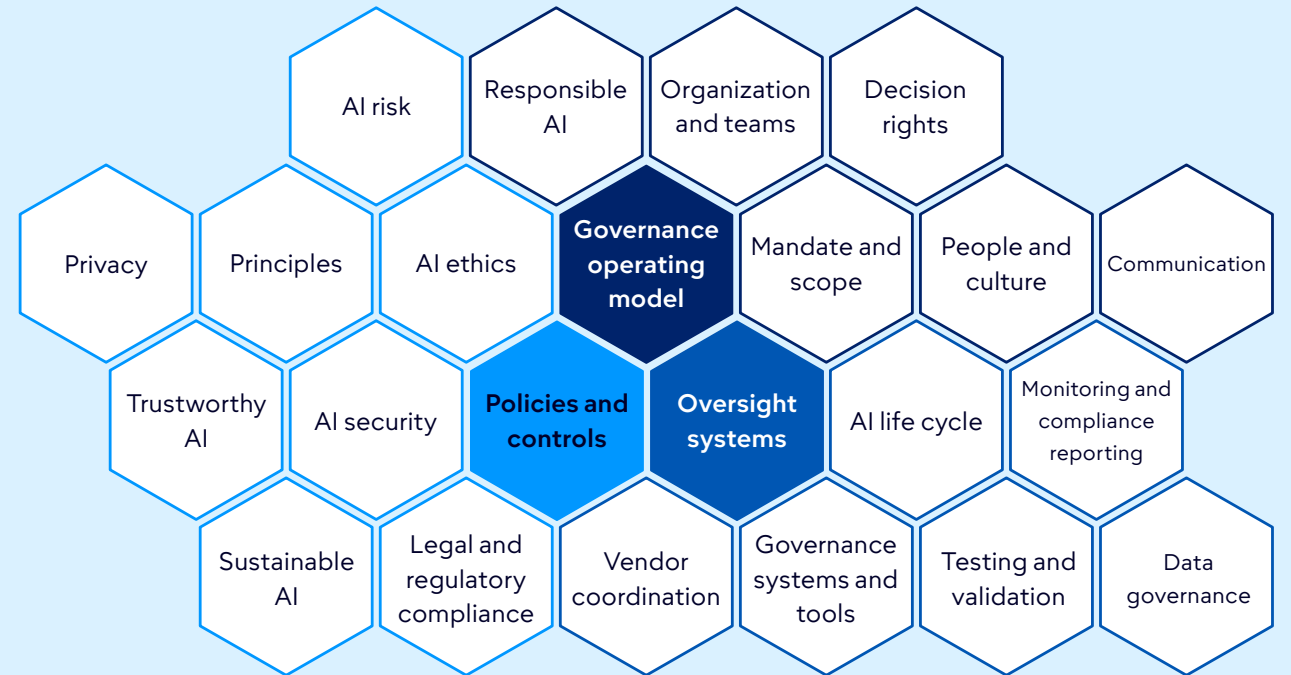
Managing AI Governance, Trust, Risk and Security



How can organizations balance AI value and innovation with growing risks, regulations and trust concerns – all while ensuring responsible adoption?

While AI continues to transform businesses with the promise of innovation and competitive advantage, this rapid adoption brings new risks, including ethical concerns, regulatory uncertainty, data privacy and security threats. Without a robust governance framework to protect trust and value, organizations risk faulty decisions, compliance failures and reputational harm. This roadmap gives those leading AI initiatives a practical guide for designing, implementing and evolving AI governance. By aligning policies, controls and enabling technologies, organizations can unlock value and minimize risk with AI initiatives that are compliant, ethical, trustworthy and resilient.

Key components of AI governance (honeycomb)



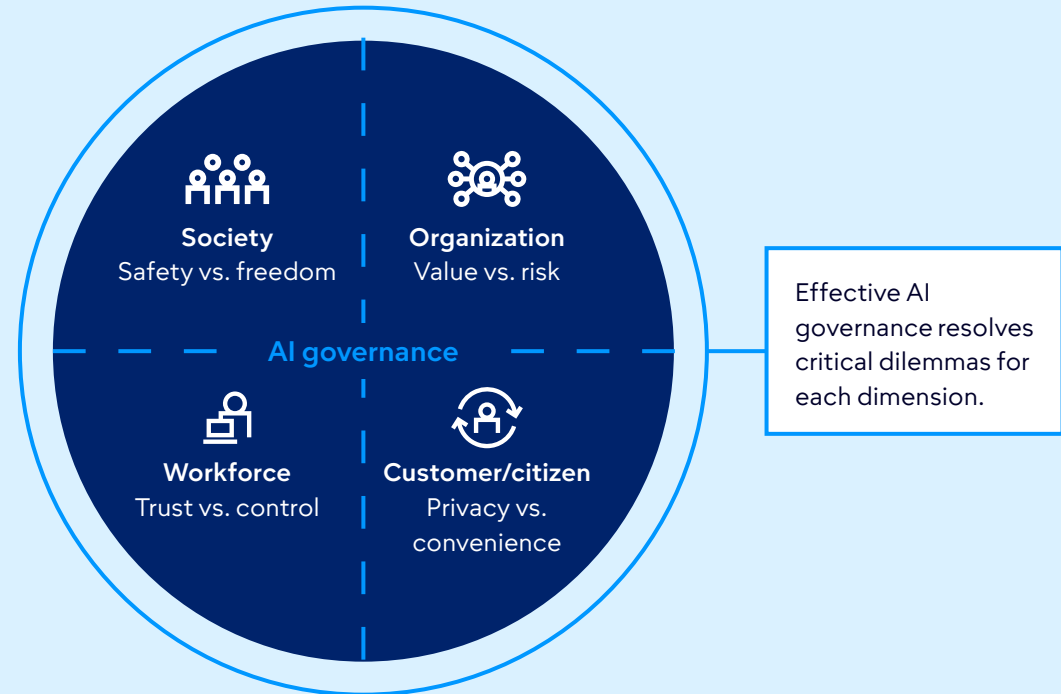
Source: Gartner

How can organizations ensure AI delivers value while meeting rising demands for transparency, security and ethical responsibility?

As AI grows more integral to business operations, organizations face mounting pressures to ensure their systems are transparent, secure and ethically responsible. Navigating evolving regulations, managing complex risks and building stakeholder trust are now essential for sustainable AI success. Without a structured approach, organizations risk compliance failures, reputational harm and missed opportunities.

With a step-by-step guide, leaders can align AI initiatives with strategic goals, embed robust governance and security practices, and foster a culture of responsible innovation to ensure AI delivers lasting value.

Dimensions of AI governance



Source: Gartner

Top questions around AI governance, trust, risk and security include:

1 How can we align AI governance with business goals while meeting regulatory requirements?

2 What steps can ensure our AI systems remain ethical, transparent and secure as we scale?

3 How do we identify, assess and mitigate the top risks in our AI use cases and operations?

What are the key stages?

This roadmap shows the sequence of objectives and desired outcomes — a useful tool for aligning all stakeholders. It's distilled from interactions with clients who've successfully implemented AI governance initiatives. A few key milestones and associated Gartner resources are highlighted below, but our full roadmap includes complete milestones and resources for each stage of governance initiatives.

Gain foresight and get grounded



Build the value case and gain executive buy-in



Execute and implement



Scale up and manage change



Gain foresight and get grounded

Actions to take:

Establish an AI council with business, data, risk, ethics and IT expertise.

Identify key AI governance dimensions and assign clear ownership to each role.

Educate leadership on AI risks, regulatory trends and organizational priorities.

Sample of associated Gartner resources include:

Insights

- Market Guide for AI Trust, Risk and Security Management
- The Pillars of a Successful Artificial Intelligence Strategy
- Executive AI Governance Playbook
- Artificial Intelligence Requires an Extended Governance Framework

Tools

- Policy Template for Acceptable Use of Generative AI
- Identify and Mitigate Top GenAI Usage Risks
- Legal and Compliance AI Use Case Risk Assessment

Analyst inquiry

- How should I organize my team to enable AI governance?
- How do we centralize governance in a distributed environment?

... and more

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Actions to take:

Link AI governance to business value and risk reduction for executive support.

Educate the board on evolving AI regulations and compliance imperatives.

Form an AI board or council to align priorities and synthesize stakeholder needs.

Sample of associated Gartner resources include:

Insights

- Board Presentation: Resource Slides on Generative AI
- Seize the Opportunities: How Will U.S. Policy on AI Impact Business Strategy?
- Getting Ready for the EU AI Act, Phase 1: Discover and Catalog
- Data Governance and Management Investments Boost Financial Performance

Toolkit

- Building Trust to Maximize Your AI ROI

Analyst inquiry

- How do I balance innovation with control?
- How do I come up with a framework to understand risk and how it applies to AI?

... and more

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Actions to take:

Design an AI governance operating model with clear policies and decision rights.

Implement robust security, risk and ethical controls for all AI initiatives.

Assign ownership and accountability for AI tools, data and compliance measures.

Sample of associated Gartner resources include:

Insights

- How to Design an Effective AI Governance Operating Model
- Developing Generative AI Policy Guidance: 5 Decisions to Make
- Generative AI Adoption: Top Security Threats, Risks and Mitigations
- A Journey Guide to Successful Data and Analytics Governance
- Model Risk Controls to Implement AI Governance

Toolkit

- Template for Acceptable Use of Generative AI

- Generative AI Security Policy Template

Case Study

- An AI Governance Framework for Managing Use Case Ethics

Analyst inquiry

- How do I operationalize AI governance?
- How do I scale AI governance?

... and more

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Actions to take:

Expand AI governance practices to new use cases and business units.

Launch ongoing AI literacy programs to support responsible AI adoption.

Continuously monitor, update and adapt governance to evolving risks and tech.

Sample of associated Gartner resources include:

Insights

- Use Model Guardrails to Regulate Generative AI Output and Behavior
- Getting Ready for the EU AI Act, Phase 3: Managing Third-Party Risks
- Operationalize AI Governance Post Deployment

Tools

- Documenting AI Reference Architectures
- Generative AI Security Policy Template
- Policy Template for Acceptable Use of Generative AI

- Employee Generative AI Risk and Compliance Training Deck

Analyst inquiry

- How do I monitor for risks?
- How do I make people aware of the use cases for AI, risk and ROI calculations?

... and more

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Build the value case and gain executive buy-in



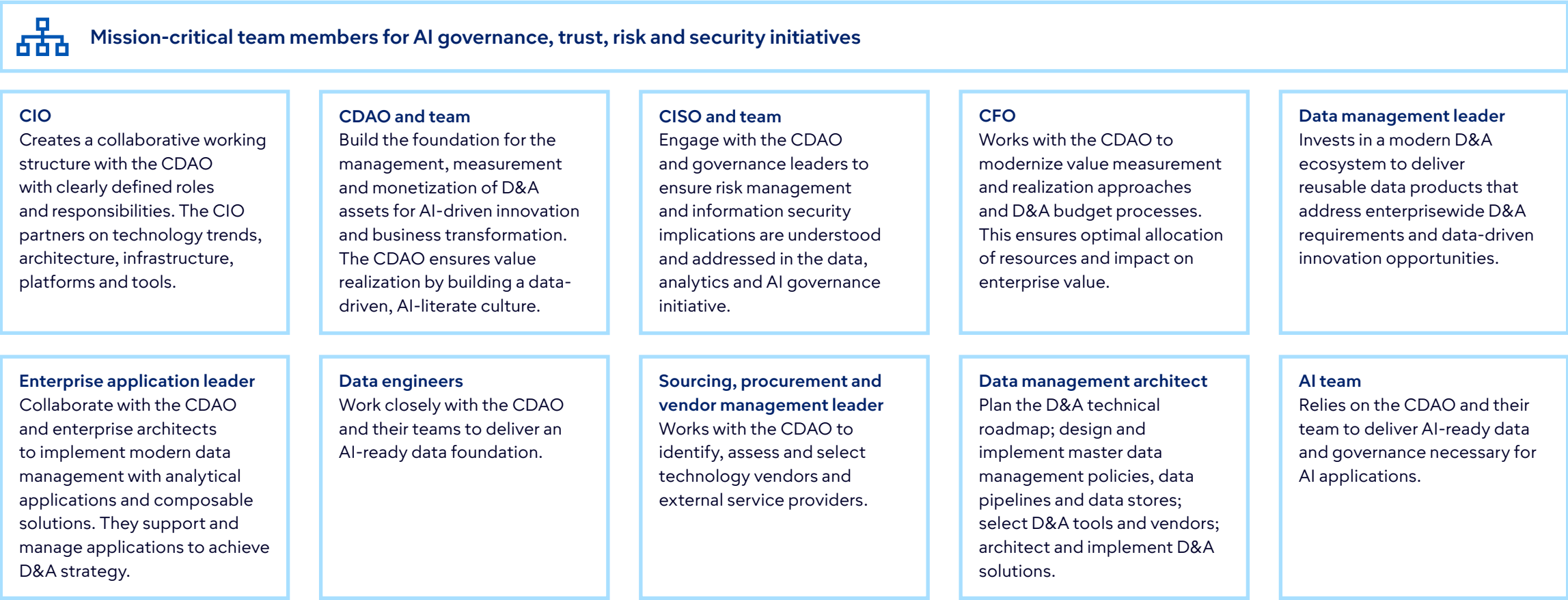
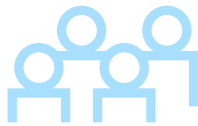
Execute and implement



Scale up and manage change

Who needs to be involved?

The most successful companies establish cross-functional teams to realize value from data, analytics and AI. Explore the recommended functions and roles to include for the best chance of success.



How Gartner supports your priorities

In addition to guidance on effective AI governance, Gartner also supports the priorities of CIOs, AI leaders and CDAOs.

Gartner for Chief Information Officers

CIO Mission-Critical Priorities (MCPs)

Accelerate AI Enterprise Value Realization at Scale

Only 20% of AI initiatives currently deliver ROI and only 2% deliver disruptive value (Return on Future or ROF).

Manage Costs Strategically to Spend Smarter and Scale Faster

Only 18% of CIOs currently rate themselves as effective at dynamic prioritization of resources which is a significant driver of their ability to deliver business value from technology investments.

Build the Human-AI Workforce

45% more business value is driven by future-ready talent strategies, yet only 36% of CIOs are effective at building them.

Secure Growth in the Age of AI through Cybersecurity

77% of CIOs rate security and risk-related factors as top challenges to successfully implementing autonomous technologies at scale in their enterprise.

Modernize Enterprise Platforms to Enhance Agility and Performance

Only 54% (1 in 2) of CIOs rate their IT organization as effective at equipping their enterprise with the required platforms and tools needed.

Redesign IT Operating Model for Effectiveness in Turbulent Times

Only 24% of CIOs report they have been highly effective at establishing an IT operating model that flexes with changing business needs.

Architect the Next-Generation Enterprise for a Tech-Intensive Future

Only 31% of CIOs rate themselves as effective at fostering ongoing enterprise-wide, technology-enabled innovation.

With Gartner for CIOs, you can confidently navigate complex technological environments, make smarter decisions and deliver stronger results. Our insights, guidance and tools are designed to focus specifically on the mission-critical priorities of CIOs and their teams.

Whether you’re looking to unlock better value with AI, optimize costs or lead organizational change, Gartner for CIOs can help you act fast and demonstrate value – from strategy to execution.

Gartner for AI Leaders

AI Leader Mission-Critical Priorities (MCPs)

Drive AI Transformation for Sustainable Competitive Advantage

77% of CEOs believe AI will have the most significant impact on their industries over the next three years.¹

Scale and Integrate AI to Maximize Value, Minimize Risk

71% of CEOs say their operating models are not fit for AI purpose.²

Establish Robust AI Governance and Organizational Trust

Only 23% of IT leaders are very confident in their organizations' ability to manage security and governance when deploying GenAI tools.³

Strengthen AI Engineering Foundations to Mitigate Risk and Unlock Innovation

Only 42% of AI prototypes reach production.⁴

Gartner for AI Leaders helps Heads of AI, Chief AI Officers and their teams accelerate enterprise AI value realization at scale.

Whether you’re scaling AI initiatives, aligning AI investments to strategic objectives, strengthening AI engineering foundations or building an AI-ready organization, Gartner for AI Leaders helps you make smarter decisions and turn AI ambition into business impact – from strategy to execution.

Gartner for Chief Data and Analytics Officers

CDAO Mission-Critical Priorities (MCPs)

Lead D&A for an AI-Native Future

87% of D&A leaders cite managing stakeholder expectations as their greatest stress factor.

Generate Foundational Value with D&A

High-performing D&A functions can boost financial performance by as much as 30%.

Rethink Analytics and AI Through Agentic Transformation

53% of D&A leaders expect AI agents to have a significant impact on productivity but believe it may not be transformative.

Evolve the AI Ready Data and Analytics Architecture

The top quartile of AI-ready organizations report 26% higher performance on business outcomes.

Redefine D&A and AI Governance

Only 15% of organizations currently operate under comprehensive governance for AI.

Gartner for Data and Analytics Leaders helps CDAOs and their teams make stronger, faster decisions. Our insights, guidance and tools focus on the imperatives that matter most to your business and stakeholders.

From transforming D&A for an AI-native future to architecture redesign and governance evolution, Gartner empowers CDAOs with best-in-class insights and step-by-step guidance to help you drive growth, mitigate risk and reduce costs.

360-degree coverage for CIOs and their teams

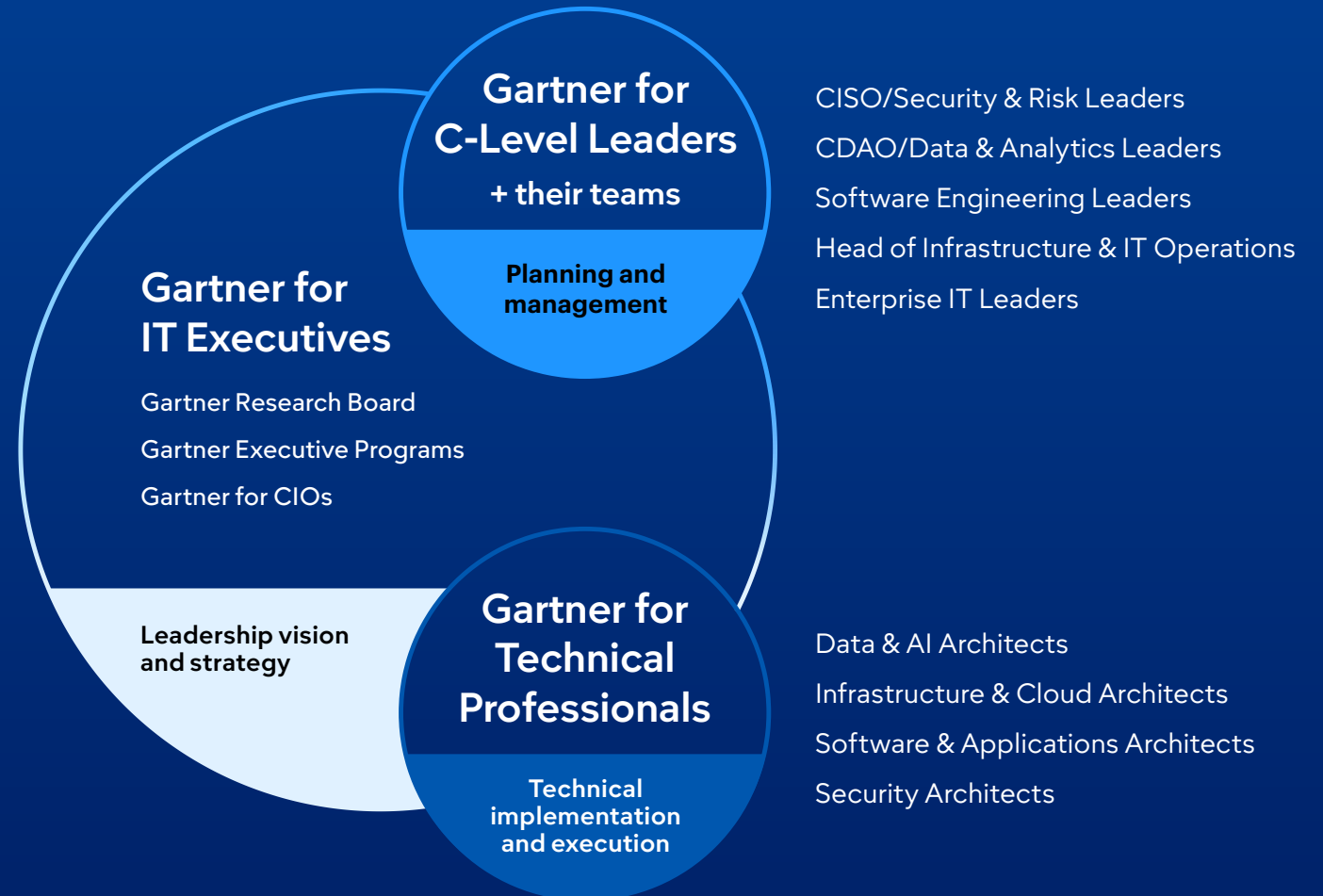
Analyst guidance and tools to maximize success at every level

Validate your vision and empower teams to execute with confidence.

CIOs rely on Gartner for Technical Professionals (GTP) to kick-start their most crucial projects. Instead of starting from scratch, they tap into analyst resources to help accelerate their teams' performance. GTP offers purpose-built tools, proven technical plans, assessments, models, step-by-step guides, reference architectures and roadmaps — all designed to help you achieve better business outcomes when you engage as a team.



Get access to technical analysts and role-specific peer communities with GTP.



Actionable, decision intelligence

Explore these additional complimentary resources and tools for data and analytics leaders:

Roadmap



Enhance Your Roadmap for Data and Analytics Governance

Learn how your peers are executing effective data and analytics governance initiatives.

[Download Now](#)

Webinar



The Gartner Framework to Manage AI Governance, Trust, Risk & Security

Understand how to get started managing AI risks and security threats.

[Watch Now](#)

Podcast



The AI Journey That Will Define Your Data & Analytics Future

Dive into how D&A leaders can navigate the mounting pressure to deliver AI results.

[Listen Now](#)

Conference



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