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The Gartner 2025 Leadership Vision for Data & Analytics



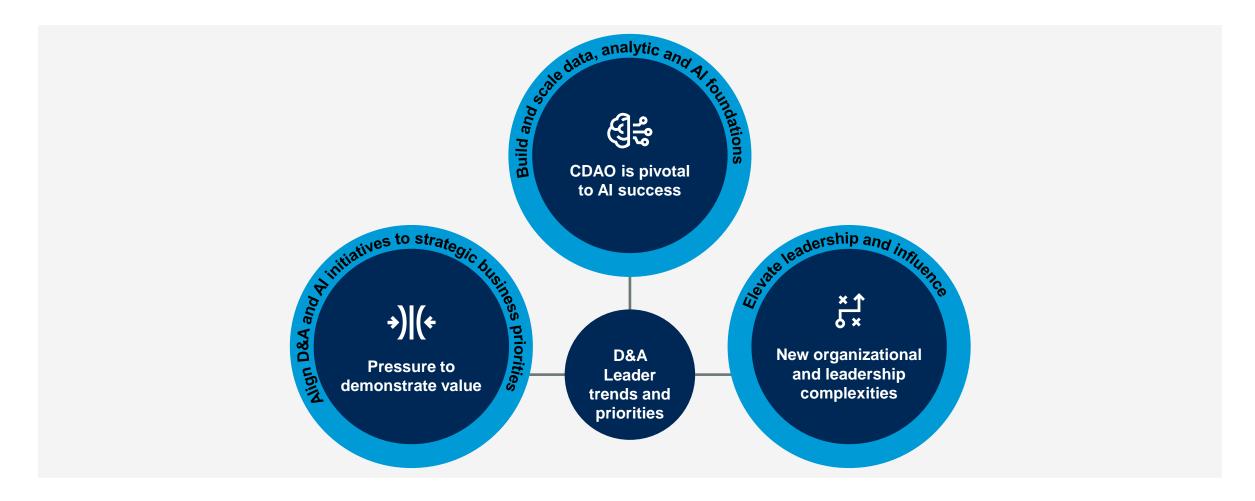
Rita Sallam

Distinguished VP Analyst





Top Trends and Priorities for Data and Analytics Leaders in 2025: How To Create Business Value In The Age of Al





Key Issues

01

What are the **major trends** affecting Data and Analytics Leaders?

02

What are the major **challenges and top priorities for Data and Analytics** Leaders?

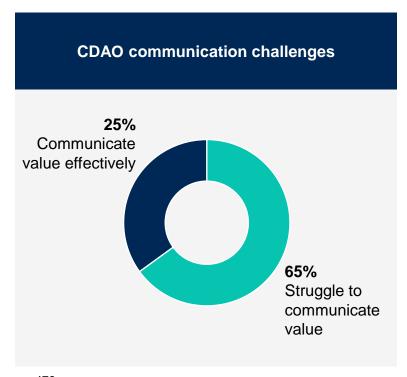
03

What **actions** should Data and Analytics Leaders take now to be successful?



Pressure to Demonstrate Value Has Never Been More Acute

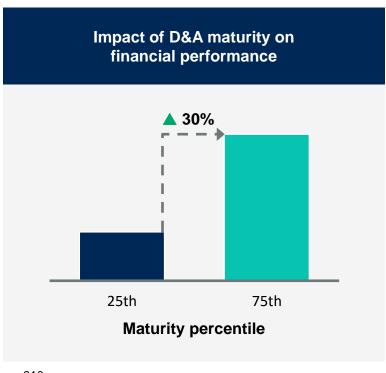
A critical gap remains



n = 476 Source: 2024 Gartner CDAO Agenda Survey



n = 102 Source: 2022 Gartner CFO Digital Strategies Survey



n = 310
Source: Invest in D&A Maturity to Accelerate Financial Performance,
A Journey Guide to Realizing Value from Data, Analytics and Al



Data and Analytics Leaders Are Pivotal to Al Success

Al-ready data and governance impact on Al outcomes



30% of generative AI projects will be abandoned after proof of concept due to poor data quality, inadequate risk controls, escalating cost or unclear business value by 2025.



60% of organizations will fail to realize the anticipated value of their Al use cases by 2027 due to incohesive ethical governance frameworks.



20% improvement in business outcomes by having data ready for Al-driven business outcomes.



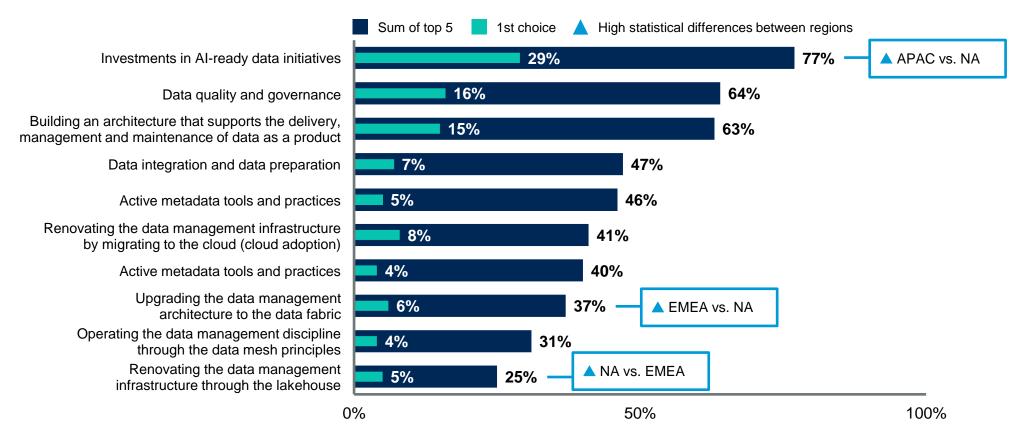
84% of surveyed CIOs and technology leaders are planning to increase their AI investments.

Source: 2025 Gartner CIO and Technology Executive Survey



Data and Analytics Leaders Are Pivotal to Al Success

Top five investment trends in the next two or three years



n = 247; All respondents excluding not sure

Q: What do you think are the top five investment trends for data management leaders in the next two to three years? Source: 2024 The Evolution of Data Management survey, CDAO Agenda 2024: Become a Driver of Business Value

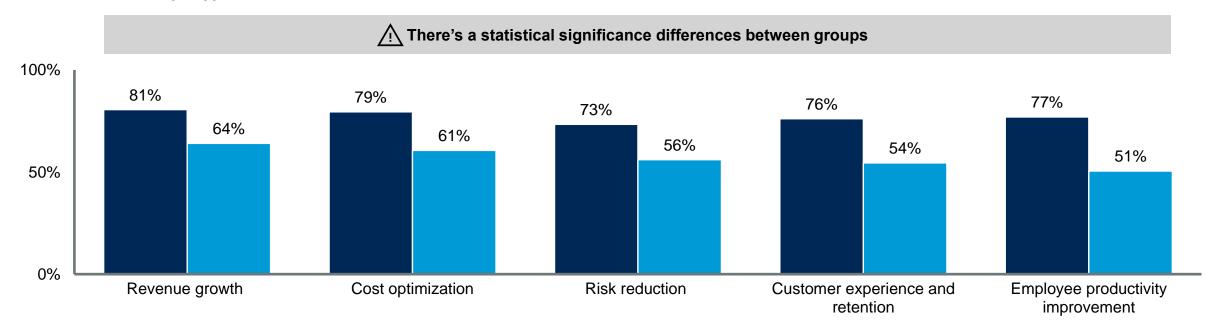


Having Data Ready for Al Drives Greater Business Outcomes by 20%

Impact of AI on business outcomes by data readiness for organization's AI initiatives

Top two box (7 = extremely impactful, 6 = mostly impactful)

Data ready for AI (8-19) Data not ready for AI (0-7) n = 151-155 n = 99-101



n = varies, main sample who has deployed Al

Q: How impactful has AI been to each of the following business outcomes for your organization?

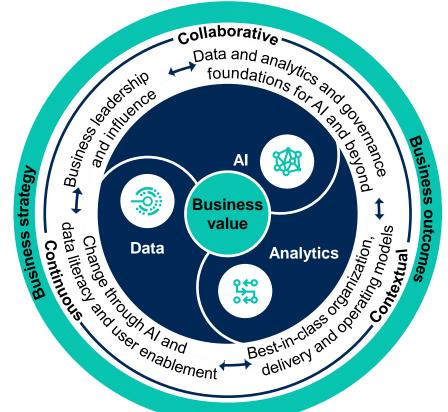
Q: How ready is your organization's data for your AI initiatives?

Source: 2023 Gartner Al in the Enterprise Survey

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Data and Analytics Leaders Must Navigate and Harness New Organizational and Leadership Complexities

The D&A leadership mandate



Data and analytics as a business capability is pivotal to Al success but requires elevated collaboration and influence across both business and IT teams

Harness the Al-Fueled Collision Between Data, Analytics and Software Engineering



Key Issues

trends affecting Data and

What are the major challenges and top priorities for Data and Analytics Leaders?

What actions should Data and be successful?



Several Challenges Inhibit Value Realization

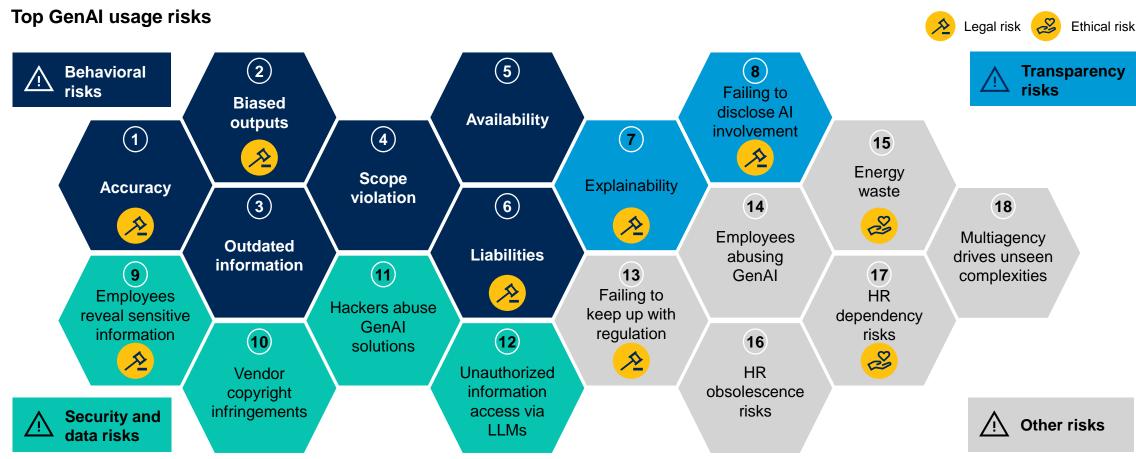
CDAOs face tough and unprecedented challenges

Strategic	Financial	€ Contrology	Organizational	People	
Alignment to stakeholder priorities	Misallocation of resources	Evolving to support Al ambition	Loss of influence for D&A team	Employee burnout	
Reduced D&A agility	Higher TCO for D&A projects	Proliferation of stealth D&A, Al	Incorrect use of data for decision making	Difficulty sourcing/ upskilling talent	
Lack of data- driven innovation	Underused investments	Multiple points of failure	Non-data-driven approaches to decision making		

How CDAOs Choose a Data and Analytics Funding Model



Increase in Al/GenAl Usage Introduces New Risks That **CDAOs Must Manage and Mitigate**



A Journey Guide to Managing Al Governance, Trust, Risk and Security



Build the Data, Analytics and Al Foundations for Al Success

Data and governance foundations for Al success



89% of respondents say D&A governance is essential for enabling business and technology innovation.

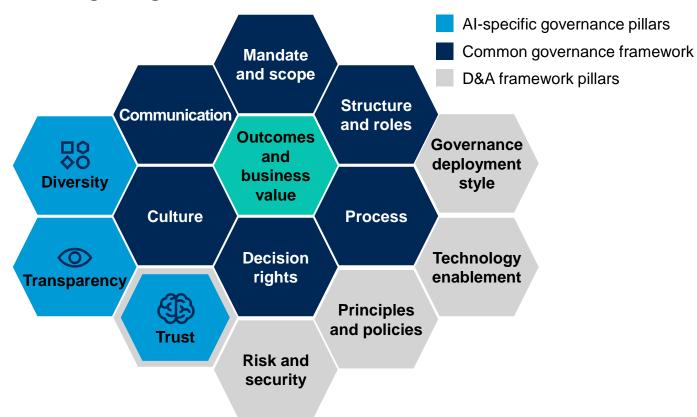
Source: 2024 Gartner CDAO Agenda Survey



39% of respondents expressed lack of data as a top three barrier to success with Al.

Source: 2023 Gartner AI in the Enterprise Survey

Extending D&A governance to Al

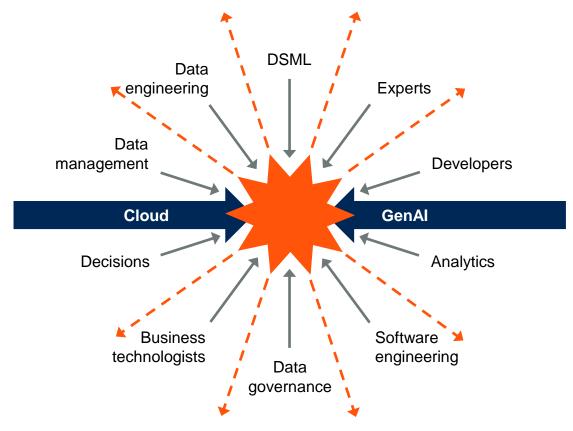


A Journey Guide to Managing Al Governance, Trust, Risk and Security A Journey Guide to Successful Data and Analytics Governance



Break Down Silos and Collaborate Across Business and IT Teams to Deliver Value

Collaboration is needed across IT and the business for AI access





87% of respondents reported that CDAO collaborations with a business-oriented CxO contributed the most to enterprisewide business value

Harness the Al-Fueled Collision Between Data, Analytics and Software Engineering How CDAOs Can Expand Executive Stakeholder Relationships



Key Issues

trends affecting Data and

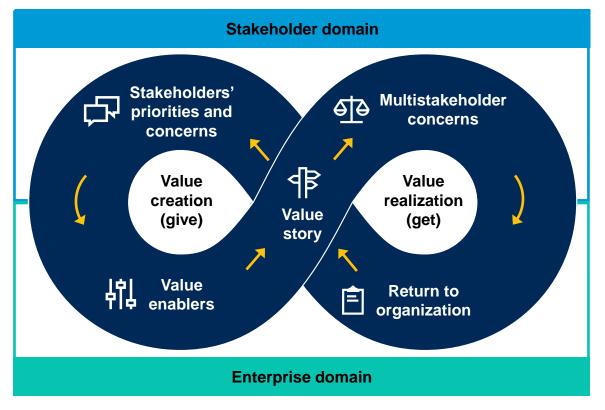
top priorities for Data and Analytics Leaders?

What actions should Data and Analytics Leaders take now to be successful?



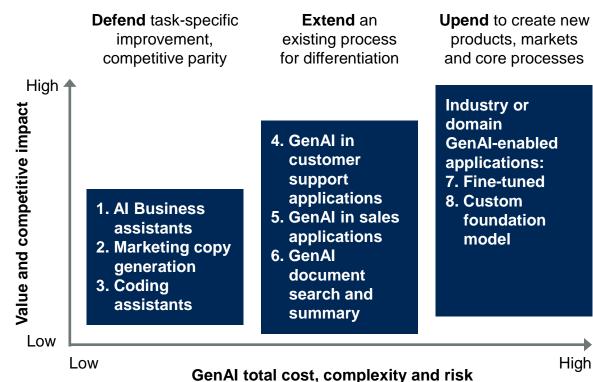
Create Value by Aligning D&A and Al Initiatives to **Strategic Business Priorities**

The Gartner enterprise value equation



Ignition Guide to Articulate Data, Analytics & Al Enterprise Value to Executives Ignition Guide: How to Align D&A Business Value With Outcome-Driven Metrics

Generative AI use-case categories Illustrative

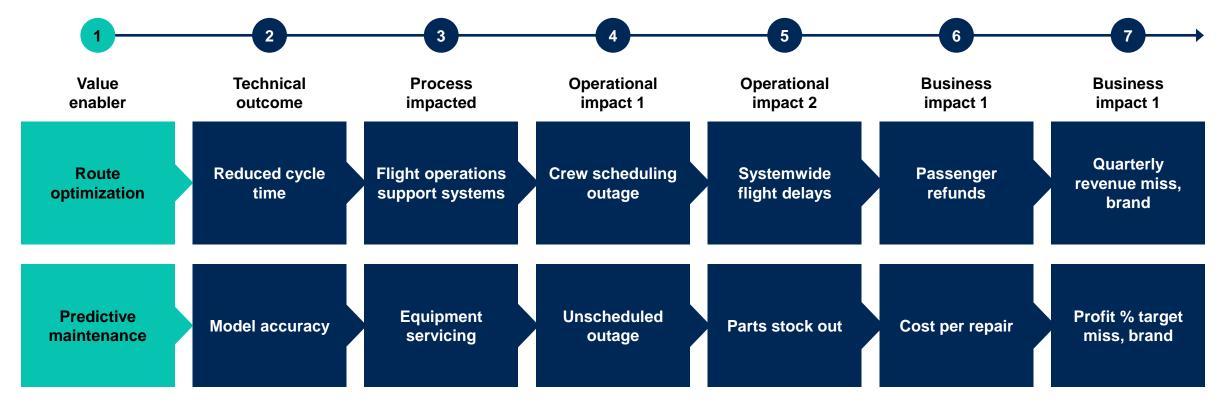


How to Calculate Business Value and Cost for Generative Al Use Cases



Apply Value Chain Mapping to Manage and Communicate the Business Outcomes of D&A and AI

Value chain mapping – illustrative examples



How to Communicate Value in the Languages of Data and Analytics, Finance and Business Outcomes, How CDAOs Can Succeed in Data and Analytics Funding Negotiations With the CFO



Exploit GenAl When It Is Best for the Business Need

Align value, Al-ready data needs and governance to use cases and Al techniques

Al technique suitability Low (L) Medium (M) High (H)

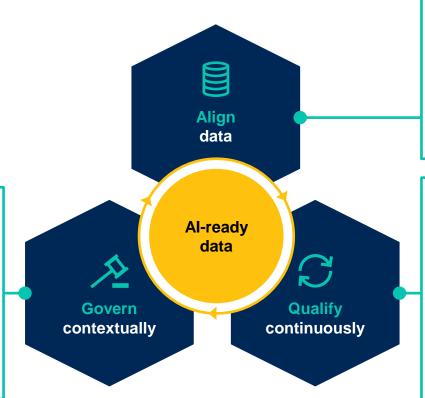
	Common AI techniques					
Use-case families	Generative models	Nongenerative machine learning	Optimization	Simulation	Rules/heuristics	Graphs
Prediction/forecasting	L	н	L	н	М	L
Planning	L	L	н	M	М	M
Decision intelligence	L	М	н	Н	н	Н
Autonomous systems	L	М	н	M	M	L
Segmentation/classification	M	Н	L	L	н	Н
Recommendation systems	M	Н	М	L	М	н
Perception	M	Н	L	L	L	L
Intelligent automation	М	Н	L	L	н	M
Anomaly detection/monitoring	M	Н	L	M	М	Н
Content generation	Н	L	L	Н	L	L
Conversational user interfaces	Н	н	L	L	М	н
Knowledge discovery	Н	M	L	L	М	н

When Not to Use Generative Al



Making your data Al-ready

- · Al standards and governance
- Data sharing
- Regulatory and compliance
- Accountability and responsibility
- Documentation and transparency
- Complaints and feedbacks handling
- User training and certification

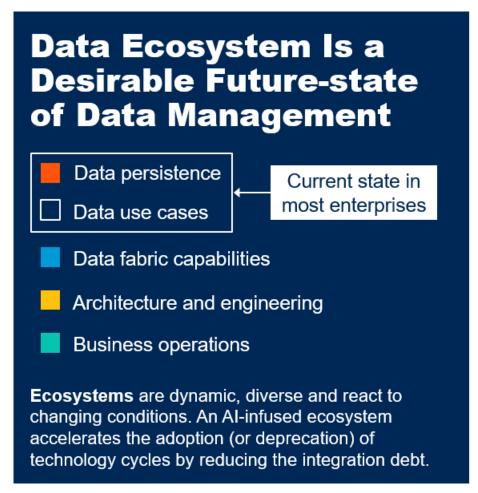


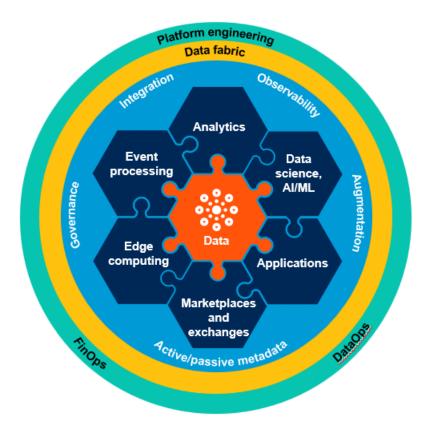
- Accessibility
- Structure
- Semantics
- Accuracy and quality
- Trust, fairness and diversity
- Annotation and labeling
- Lineage and graphs
- Consistency assessment
- Validation and verification
- Continuous regression testing and auditing
- Inference and derivation
- Observability metrics
- · Annotation and labeling
- Monitoring and detection

A Journey Guide to Delivering Al Success Through 'Al-Ready' Data



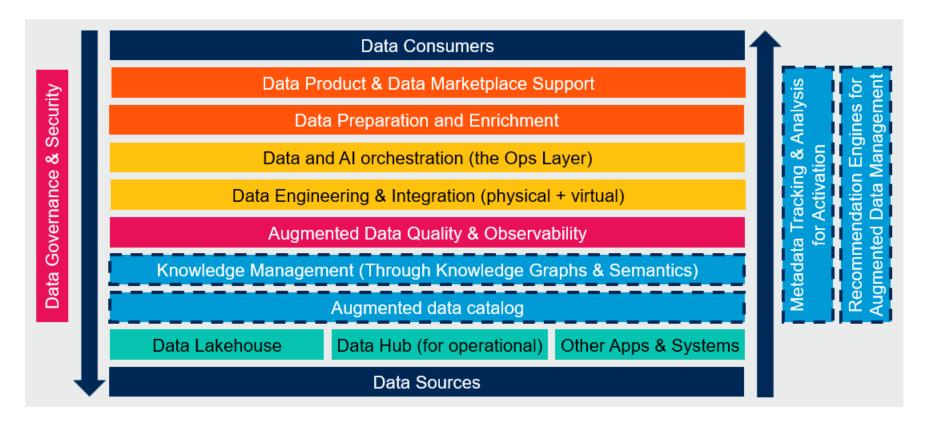
Making your data Al-ready Leveraging A Data Ecosystem







The Data Fabric Is The Foundation of The Modern Data Ecosystem





Build AI Data Readiness

Journey guide to Al success with Al-ready data

Step 1: Get grounded and gain foresight	Step 2: Define value and gain executive buy-in	Step 3: Execute, implement and scale	Step 4: Govern and manage change
What is Al-ready data?	How can I present AI-ready data requirements to the boards?	How should I evolve my data management practice to support Already data?	How do I plan GenAI's impact on current data management tools, practices and skills?
Why does Al-ready data matter now?	How do I build a business ease to secure funding, and what are my success metrics?	What technologies, platforms and architectures are needed to support Already data?	How do I govern and scale AI-ready data and also mitigate risks?
How do I assess my data readiness for AI?		How can I extend our data management practice to support unstructured data and enrich LLMs through RAG support?	

A Journey Guide to Delivering Al Success Through 'Al-Ready' Data



Process for launching and managing data products

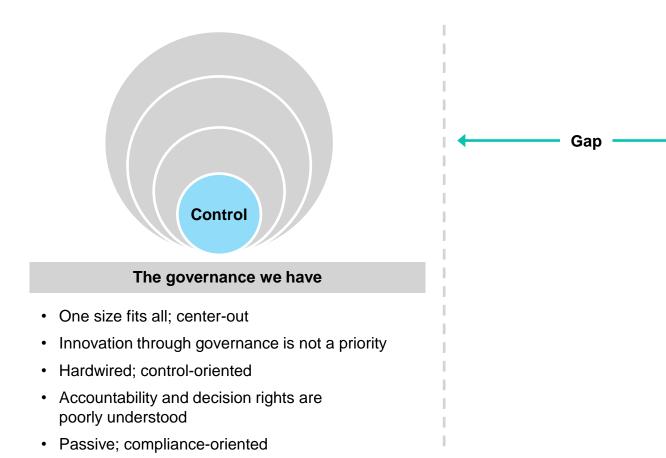
Day	1
Ignit	ion

on	Clarify objectives and roles	Create the vision	Build your strategy	Lay the groundwork	Iterate on development life cycle	Set the stage for future	Three months
	Clarify objectives	Align product vision	Shortlist products	Create data contract	Establish product backlog	Prioritize products	
	Define the problem	Establish user personas	Plan change management	Assemble product team	Get product feedback	Upgrade data stack	
	Describe the roles and responsibilities	Understand user needs	Identify product owner	Ensure data accessibility	Push to production	Diversify funding	
	Understand principles	Develop value hypothesis	Onboard pilot user	Create product roadmap		Update operating model	
	Validate delivery model	Manage portfolio	Develop KPI measures	Verify data quality		Monitor Success	
'			Specify requirements	Create prototype			
			Raise awareness				

Ignition Guide to Launching and Managing Data Products



The data and analytics governance we have is not what we need





- Multiple styles; sensitive to business context
- Encourages innovation at the center and the edge
- Flexible, dynamic strategy across ecosystem
- · Decisions rights are fully understood and connected to value
- Active; sensitive to opportunity and risk

Maturing D&A Governance Is a Catalyst for Business Innovation and AI 2024 Strategic Roadmap for Data and Analytics Governance

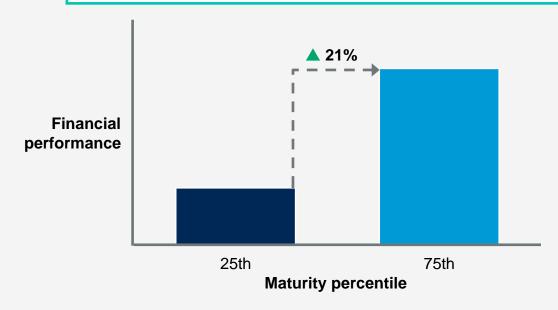
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Establish the Connection Between Al-Ready Data, Governance and Business Value

Impact of "governance" on company financial performance^a



The benefit of moving from low to high maturity in D&A management practices, including data governance demonstrated a 21% improvement in organizational financial performance.



n = 310

Source: Gartner's IT Score for Data and Analytics

^a This result holds for the overall sample. Financial performance is being measured by total revenue here Data Governance and Management Investments Boost Financial Performance Case Study: An Al Governance Framework for Managing Use Case Ethics



Establish Scalable and Responsible **Practices**

Impact of GenAl on D&A governance personas Moderate to high impact Moderate impact Low impact GenAl augmentation via capabilities^a Personas Access management Active metadata Data catalog, business glossary, data dictionary Information policy representation D&A governance board Impact analysis (Policy creating) Task management Data catalog, business glossary, data dictionary Persona-based user interface Workflow management Lineage Domain stewards Impact analysis (Policy enforcement) Data profiling Data classification Data catalog, business glossary, data dictionary Persona-based user interface Workflow management Data management team Orchestration/automation (Policy execution) Tag management

Same capabilities have different use cases for different personas, leading to different degree of impact of GenAl Best Practices for the Responsible Use of Natural Language Technologies



Link Trust to Value Realization

By 2027, Al governance will become a requirement of all sovereign AI laws and regulations worldwide.

10 must-know legal concepts for CDAOs

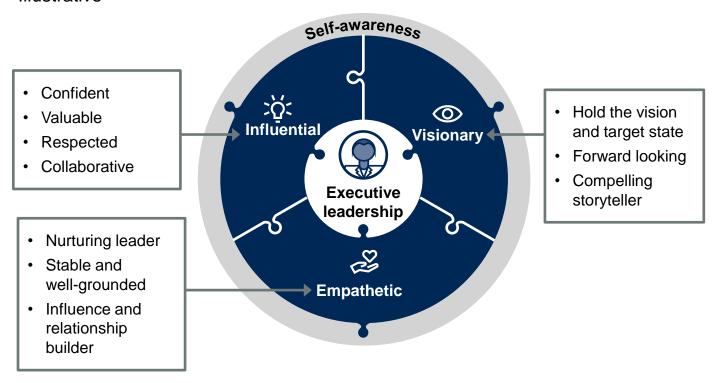


Toolkit: Building Trust to Maximize Your AI ROI **Board Briefing: AI Regulatory Updates**



Elevate Leadership and Influence

Successful executive leaders are visionary, empathetic and powerful Illustrative



The journey from order-taker, to powerful partner



Develop valued and trusting relationships and visibility across your organization



Build deep knowledge of the levers of success, and the problems facing your organization and the people in it



Identify and engage with a collaboration partner



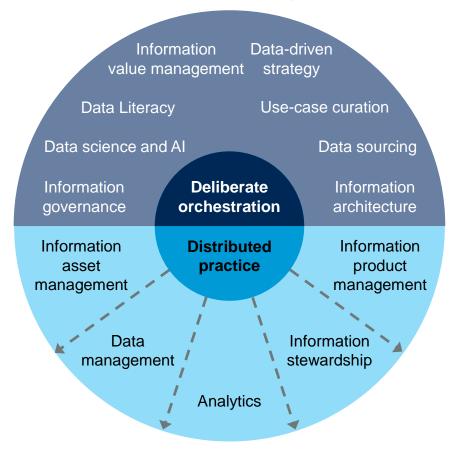
Build a fusion team to focus on one key challenge collaboratively, setting up a test-and-learn pilot

4 Steps for the CDAO to Build Powerful Business Partnerships 7 Hacks to Master the Power Politics of Data and Analytics Adoption



Build the Right Competencies and Organization for Success

Data and analytics competencies for a data-driven organization



Gartner predicts

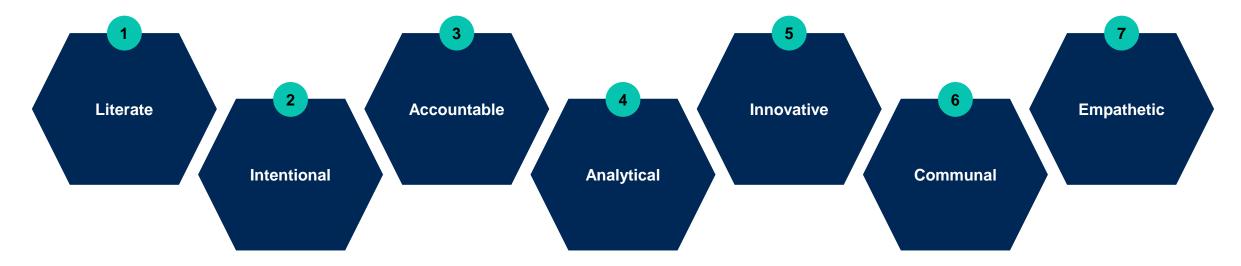
By 2027, more than half of CDAOs will secure funding for data literacy and Al literacy programs, fueled by enterprise failure to realize expected value from generative AI.

Accelerate Digital Business Aspirations by Becoming a Data-Driven Enterprise Address Both Data Literacy and Culture for Effective D&A Programs



Foster Key Cultural Characteristics for Successful Al and Data-Driven Transformation

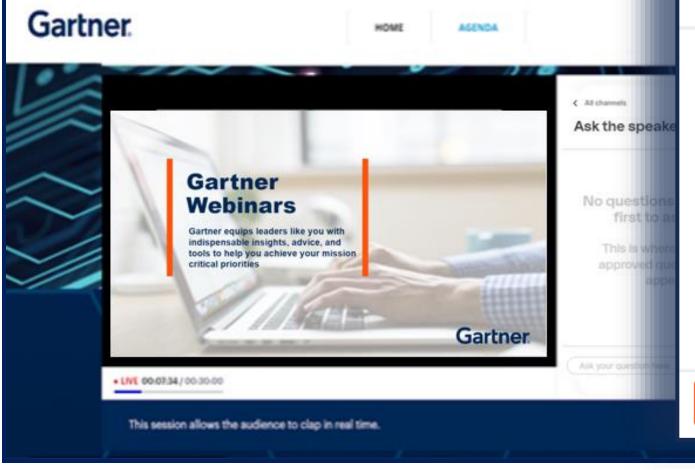
The Gartner Decision Intelligence Framework



Quick Answer: How to Create a Data-Driven Enterprise



Ask the speaker



All channels Ask the speaker No questions yet. Be the first to ask one! This is where all of the approved questions will appear

Ask your question here





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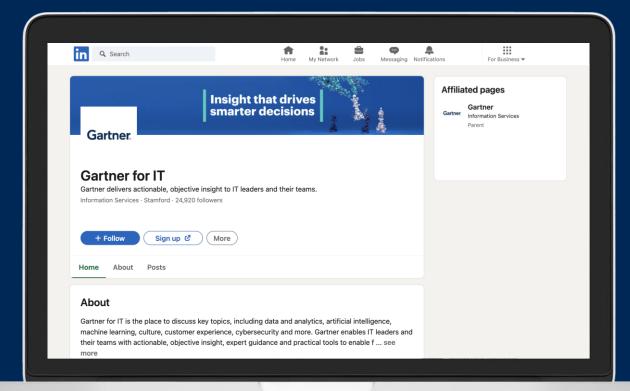
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