



Reimagining the modern data protection function

In a business and technology landscape disrupted by generative artificial intelligence (GenAI), organizations could face increasingly complex data challenges.

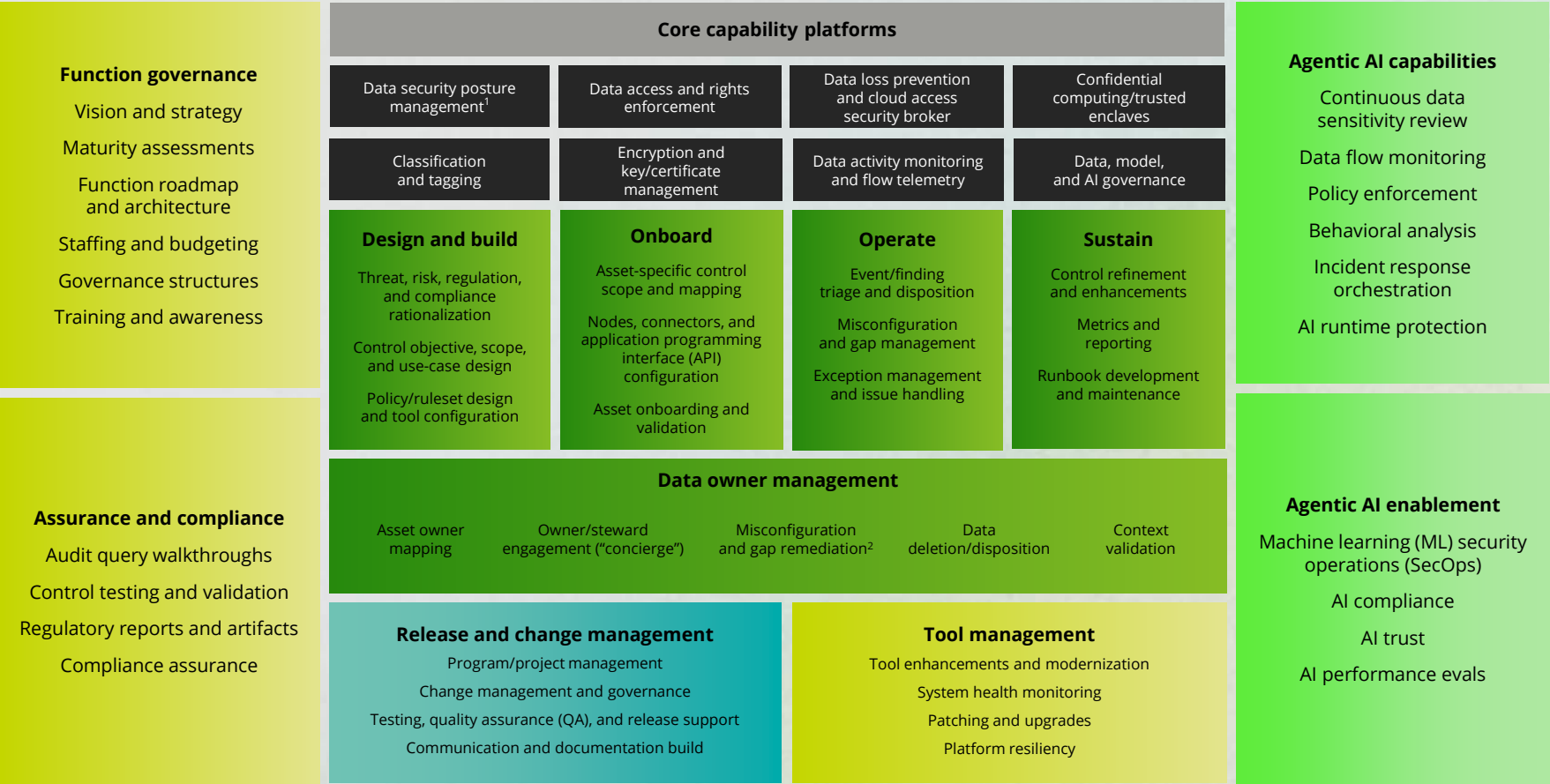
The explosive growth of enterprise data has fueled a rapid expansion of data services (platforms, data processing, and analytics). In this complex and ever-expanding data landscape, organizations need to tackle rising frequency and impact of breach events, further exacerbated by agentic artificial intelligence (AI) solutions.

At the same time, regulatory scrutiny is intensifying around the globe. Multiple jurisdictions are enacting data protection requirements through a large set of global regulations regarding data governance, AI, and privacy. Noncompliance with these regulations often carry punitive actions.

Thus, organizations adopting GenAI solutions could face significant imperatives from customers, partners, and regulators to manage and maintain a broad security posture for trusted data handling, ultimately driving competitive advantages.

The future of data protection: Embracing AI

A blueprint for an AI-powered future: This model presents a strategic, AI-driven approach to data protection, aligning people, technology, and workflows. It offers a practical capability map to modernize data protection, integrate AI-powered services, and strengthen defenses against emerging threats. The legend below identifies the new and evolved AI-enhanced services.



LEGEND

High-AI uplift opportunities

Independent software vendor tools

New services

Partial AI uplift opportunity

Deloitte Ascend™ for Cyber

¹Data Security Posture Management generally covers data discovery, semantic contextualization, misconfiguration detection, and reporting capabilities. ²Misconfiguration remediation includes a variety of actions, such as key and certificate rotation, data access cleanup, data encryption/tokenization, DLP event blocking, file quarantine, classification label correction, and data deletion.

Connect to accelerate

Contact our leaders to dive deeper into the blueprint and reimagine what’s possible for your organization.



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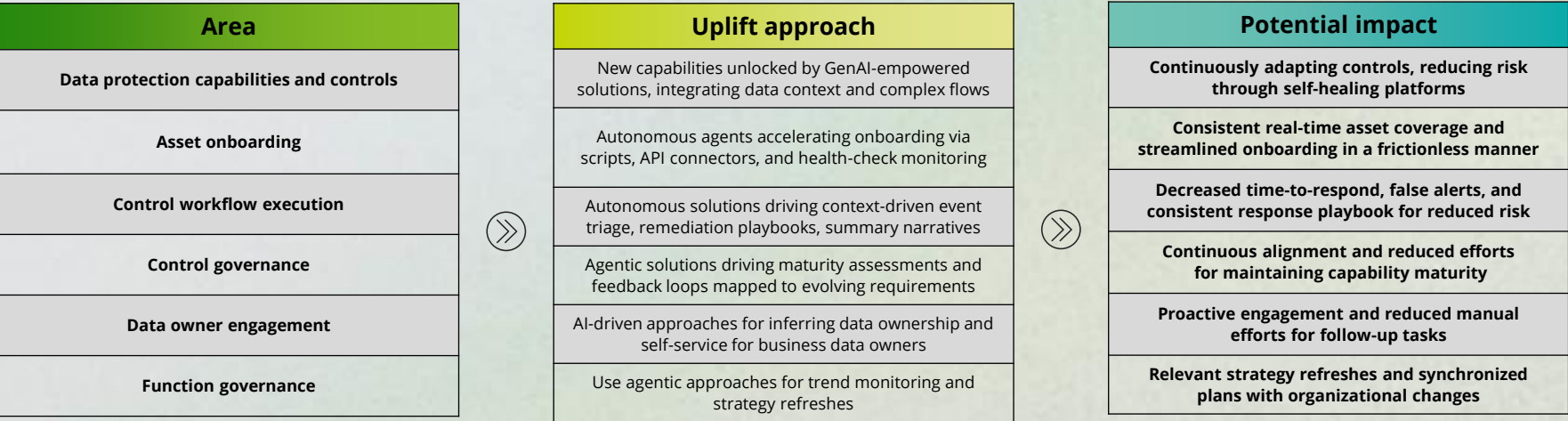
Protection for AI: Data, model, and AI protection for the enterprise

Protecting autonomous or semi-autonomous AI “agents” acting on behalf of users or organizations encompasses three major areas.

Area	Security concerns		Foundational priorities
Governance	Policies and controls	Capability roadmap	Define: Set controls using security standards for oversight and accountability.
	Regulatory compliance	Central policy management	Comply: Adhere to industry regulations to maintain lawful AI operations and user trust. Inventory: Track agent identities, roles, and permissions for auditing and risk management.
Visibility and baseline hardening	“Shadow AI” discovery	Data access and tool scope	Find: Discover and onboard AI agents to facilitate visibility, approval, and proper configuration.
	Security policy enforcement	Data flow monitoring	Understand: Monitor data flows and classify sensitivity for proper classification and tagging. Harden: Enforce security to protect data assets, model weights, and secure agent artifacts.
Runtime monitoring and response	Evaluation drift monitoring	Red teaming	Monitor: Collect telemetry, monitor data flows, and detect deviations and exfiltration.
	Data exfiltration response	Input/output data guardrails	Respond: Remediate issues and orchestrate incident response to mitigate AI attacks. Improve: Use red teaming to test and refine security posture and AI build.

AI for protection: Applying the blueprint for data, model, and AI protection

Explore how harnessing AI and smarter solutions can reduce manual effort and accelerate results across functions.



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