

Mitigating risk through information governance

Using automation to elevate corporate strategy, compliance and information security initiatives

Turning data into information

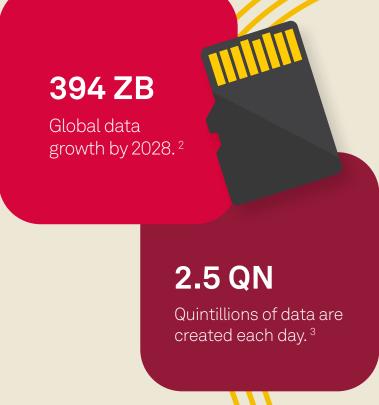
In many industries, from healthcare and education to government, financial services, manufacturing and more, the immense volume of data being generated daily can be overwhelming. The amount of data is growing so fast that it's estimated that 90% of the world's data was created in the last two years.¹

Today's deluge of data can be unwieldy without the right systems and processes in place to discern its meaning. The acceleration of data is so shockingly pervasive that organizations are being forced to not only manage and secure the data they have — but to get ahead of this data storm as it continues to compound.

Much of this data can be highly valuable to an organization but only when you have the tools and processes in place to derive value and meaning from it. By turning raw data into structured, searchable and actionable information, organizations can uncover insights and empower better decision-making.

But how? For years, **Enterprise Content Management (ECM)** solutions were commonly used in government, healthcare and education where compliance was a key requirement. ECM solutions centralize and organize information and automate document and multimedia file storage, management, organization, and distribution.

However, with the proliferation of hybrid and remote work, ECM has become a mainstream, competitive advantage for many other industries due to its power to effectively manage information and enable efficiency, increase productivity, reduce errors, and enhance business outcomes.



¹G2. "85+ Big Data Statistics To Map Growth in 2025." December 11, 2024.

²Statista. "Volume of data/information created, captured, copied, and consumed worldwide from 2010 to 2023, with forecasts from 2024 to 2028." November 1, 2024.

³G2. "85+ Big Data Statistics To Map Growth in 2025." December 11, 2024.

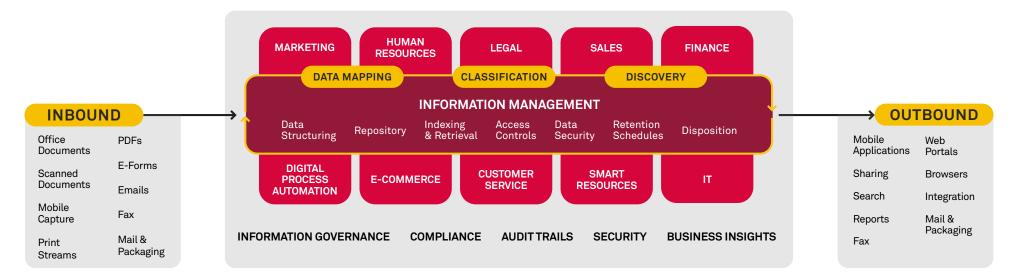
Making information governance a priority

Protecting your information **starts with knowing what you have, where it's located and the risk it could pose if it's not protected**. Once data is turned into information, organizations must understand how and where that information comes into the business (inbound information); how that information will be used and by whom, and what applications will need to use that data (throughbound); and finally, where that information will go or be stored (outbound). Throughout this journey, compliance, risk and security must play a major role.

Companies must consider the risks: information loss, privacy, cyber threats, theft, accidental or intentional destruction of critical data, denial of service attacks, and malicious code, among others. Security is not just about checking boxes during the procurement process — it's quickly becoming a significant market driver as more businesses mandate compliance, requiring partners and vendors to meet strict security and privacy standards. In today's world of increasingly complex and sophisticated cyber attacks, security should be expected throughout the enterprise — yet, for many, it is a competitive advantage.

The framework and practice of incorporating compliance and security with company information is how we define information governance.

Maintaining control of your information while complying with regulations will mitigate risks. Information governance focuses on how to create, capture, manage, administer, collaborate and dispose of organizational information. It takes a coordinated effort and strategy of orchestrating people, process and technology. In layman's terms, think of it as a giant checklist to keep customer, partner and internal information secured and compliant.



Setting the stage: here's why it matters

The data analysis, research and studies on cybersecurity and information governance tell us business information is at risk. A holistic, data-driven approach throughout the entire organization is needed to achieve success. Otherwise, customer trust and experience, compliance, and profitability are at risk.

80%

"By 2027, 80% of D&A governance initiatives will fail due to a lack of a real or manufactured crisis." ⁴

1 ECM

A centralized enterprise management system would benefit companies by improving compliance 42%, customer insight 38% and security of content 38%.⁵

#1 risk

Third-party cybersecurity and data risks for businesses rank highest in concerns.⁶

21 days

The average ransomware attack results in 21 days of downtime and the average cost of unplanned downtime is now USD \$14,000 per minute.⁷

61%

Over 61% of organizations have a defined Zero Trust security initiative with continuous verification and validation to protect their information.⁸

34%

While cybersecurity spending has grown at a Compound Annual Growth Rate of ~10% over the past decade, the CAGR for breaches has surged to an alarming 34%.⁹

⁴ Gartner®, Enhance D&A Governance With a Graduated Trust Model, 11 October 2024.

- ⁵ IDC. "State of Content Services Survey." June, 2023, n=714.
- ⁶ KPMG. "Board oversight of third-party risk management." 2024.

⁸SentinelOne. "10 Zero Trust Solutions for 2025. December 17, 2024.

⁹ Security Bouldevard. "Top 7 Critical Security Challenges (and How to Solve Them)." December 19, 2024.

GARTNER is a registered trademark and service mark of Gartner, Inc. and/or its affiliates in the U.S. and internationally and is used herein with permission. All rights reserved.

⁷ JumpCloud. "2024 Ransomware Attack Statistics & Trends to Know." October 22, 2024.

3 key elements of information governance

Your mantra for information governance and security should be: know what you have, know why you have it, and know what the risk is for keeping it.

To do that, automation solutions like ECM, intelligent document processing (IDP), and robotic process automation (RPA) are helpful in managing your data and information throughout its lifecycle. Here are some of the essential elements you need to create your information governance approach — along with some other important things to consider:

- 1. A system for information and records management
- 2. Laser focus on knowing where your information lives
- 3. Automated processes are integral

1. A system for information and records management

Information and records need an ECM solution or repository where documents and files are classified or indexed and searchable in a digital format. Best practices and processes for managing the documents and their lifecycle are an integral part of information governance.

Here's how a typical document goes through its workflow and lifecycle:

- 1. The document or media is digitized or scanned.
- 2. The document is sent into an IDP or capture solution, which transforms unstructured, semi-structured and structured data through classification, extraction, validation and exportation into any other type of application or workflow, such as an ECM, ERP, CRM, RPA, iPaaS, or other systems.
- 3. The digital document is then managed in the repository or application, where its information can be discovered, tracked, analyzed, managed, and ultimately archived, preserved or safely disposed of based on business rules or compliance standards.

About 90% of enterprise data is unstructured — often company documents, PDFs and media files — which is information that is not structured in a database format, making it difficult to search, manage, protect and use.¹⁰ Having unstructured data presents many risks, which is why any type of unstructured documents or images should be converted and digitized into structured information and securely managed across the organization. Protecting your data and minimizing risks is not just an IT responsibility — it must be a company-wide effort.



2. Laser focus on knowing where your information lives

10% Structured data

90% Unstructured,

Unstructured, semi-structured and ROT data To increase security and optimize storage costs, IT teams must have knowledge of company information and where it's located, the risk it presents, and whether that information needs to be retained.

It's critical that organizations understand the difference between information (sensitive or regulated) and records and what control measures are required for each, such as: security, privacy, discovery classification, storage, access, retrieval and disposition. It's also important to establish practices that identify ROT data (redundant, obsolete or trivial data), that becomes costly to store and increases the organization's exposure to cyber threats.

It is estimated that ROT data accounts for a minimum of 25-30% of company data, with other sources saying it's often much higher. Once an organization can weed out and reduce its ROT data, it can reduce storage costs and invest security where it matters most. Protecting sensitive data, such as personally identifiable information (PII) and payment card industry (PCI) information, is critical in mitigating potential risks. This type of information commonly includes names, addresses, dates of birth, social security numbers, passwords, credit card numbers, banking information, or contracts. Therefore, establishing a secured information technology and management infrastructure will provide a foundation for maintaining compliance for both structured and unstructured data. This brings us to a closer examination of information security practices.

2

Encryption

Data encryption should be applied to documents, files, messages, or any other form of communication over a network. Additionally, it is a best practice to have endto-end encryption for all devices, software, and storage solutions.

While data and information security should be a top priority for all staff, you can't rely on them to know when or how data should be encrypted. When developing your organization's encryption policy, you'll first want to get an accurate picture of where all your data resides, how much of it is confidential or valuable (a potential target for cyber attacks or bad actors), and the risks it presents to your organization. Cleaning up unstructured data and conducting a data protection impact assessment will enable you to develop a comprehensive data security strategy. Encryption will help fortify your overall company security.

Ransomware protection and containment

There are two critical layers to ransomware security — prevention and mitigation. Preventative solutions detect ransomware signatures and behaviours, stopping them from getting past the perimeter, whereas ransomware containment stops outbreaks of malicious encryption if it breaks through safeguards. The software focuses on the outcome of ransomware and rapid illegitimate encryption. It stops encryption at the source or root file, isolating and containing it to prevent further spread.

Ransomware containment is a critical last line of defense to an organization's security infrastructure, filling the perilous gap between devices and file shares where organizations often lack the essential defenses. Having a containment solution in place ensures that if an attack happens, you can respond quickly enough to protect the majority of your information.

8

³ Authentication

Multi-factor authentication (MFA) for business applications and devices is critical to organizations because it adds an essential layer of security beyond just passwords, reducing the risk of unauthorized access. By requiring multiple forms of verification — such as a password, mobile authentication app or biometric factor — MFA significantly helps protect sensitive business data, customer information and financial assets.

Preventing the misuse of resources reduces operating costs, restricts user activity to enforce accountability, and provides insight to spot irregularities through reporting. One often overlooked area is printing, in the office and remotely. For example, printing rules can include setting page limits by device, restricting colour usage, enforcing duplex, restricting access to certain settings, and more.

If users must authenticate to print, the print rules you set are automatically enforced and activity is attributed back to the user. This can associate document printing, scanning, and faxing to a specific client/matter for the purpose of billing, which enables detailed activity reports around a project or confidential topic.

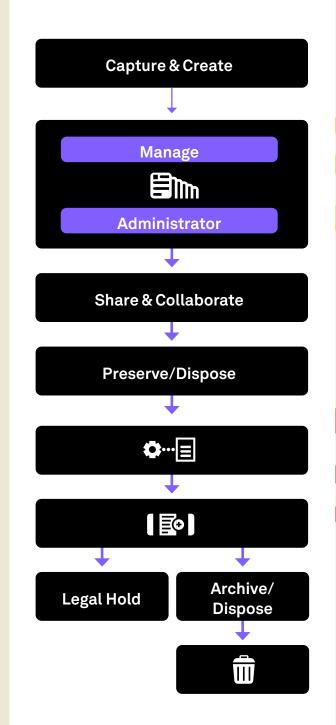


3. Automated processes are integral

Many daily tasks involve business processes, workflows and transactions — much of which can be automated. Common processes where intelligent business platforms, such as data capture and workflow applications, can be applied are:

- Invoice processing
- Loan processing
- Claims management
- Human resources onboarding
- Patient records and forms
- Student transcripts and records
- Maintenance and sales orders

Automating processes offers a multitude of benefits and can uncover new possibilities for the way people work — but digitized data requires focused protection from the point of origin and throughout its lifecycle. For example, decreasing repetitive tasks (through automation tools like RPA and workflows) will help mitigate risks, deliver faster results and accelerate approvals.



40%

Cost-savings from Ricoh customers using information governance, while meeting security, sustainability and compliance objectives.¹¹ Creating an information governance strategy and rules around business processes will benefit your organization in many ways:

- Avoid penalties and fines
- Build customer and supplier trust
- Maintain compliance and audits
- Combat potential security breaches, threats and attacks
- Better manage IT costs
- Accelerate processes to enhance customer experience
- Help employees break down productivity barriers to become more efficient
- Easy integration into other applications
- Enable a data-driven culture with ongoing operational process improvement

¹¹ Ricoh Document Governance. <u>https://www.ricoh.co.uk/business-</u> services/all-services/application-services/document-governance/.

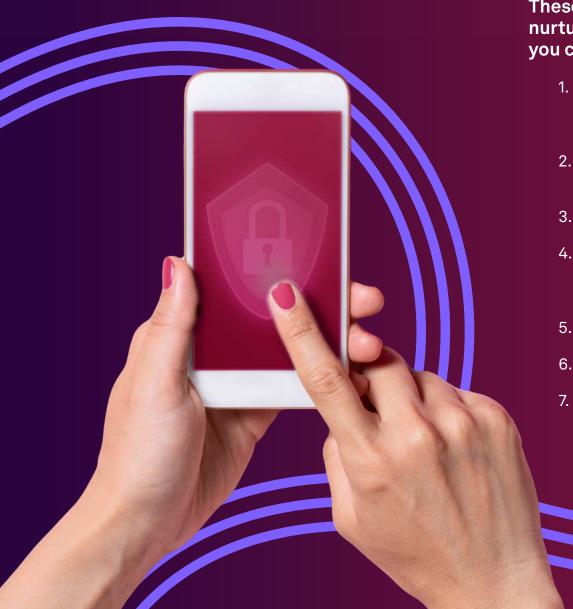
What should you do next?

While there are many complexities around information governance, management and security, the key takeaway is to understand what information, documents and data you have, and how it is used and managed throughout its lifecycle. Once you do this, you'll be in a better position to mitigate risks and tackle compliance challenges head-on.

Modern, automated solutions, paired with ECM from capture and workflows to devices, security and overall management — can not only be a competitive advantage but also serve to future-proof any business. Analyst research suggests that if all information, documents and applications were integrated and centralized, the top three benefits would be compliance, customer insight and content security.¹²

Leadership will need to convey the importance of information governance and security protocols by having the entire company comply with its guidelines. It's not just the IT team who should be at the table, but the collective organization. Fostering a datadriven culture must be top-of-mind. This often means embracing a "zero trust" mentality, which calls for a multi-layered security approach, including authentication, encryption and cyber security frameworks. Similarly, creating a strategy that permits the free flow of information to those who need the information but protects it at the same time.

7 steps to jumpstart your information governance program



These steps will help you build, promote and nurture a culture of information governance as you continue on your digital maturity continuum.

- 1. Identify your personally identifiable information (PII), payment card industry (PCI) information and intellectual property (IP) information.
- 2. Understand and comply with GDPR, HIPAA, SEC, PIPEDA/DCIA/CCPA, and other regulations.
- 3. Identify and remediate ROT.
- 4. Isolate information that is not required beyond the purpose of its collection, such as credit card numbers or specific identification.
- 5. Archive what is of business or cultural value.
- 6. Monitor data stores regularly.
- 7. Continually review company policies for records and security.

Mitigating risk through information governance

Information governance and information security are ingrained in our values — a commitment we do not take lightly. Whether you're stuck in a data deluge, work in a highly regulated industry, lack resources or experience, or want the assurance of utilizing highly secured services, software, and devices, we aim to gain your trust by having the highest security standards in the industry.

Our depth of experience in consulting and applying a multi-layered approach can be leveraged across your organization from strategy, devices, software, services, support, training, and more. Let us help you in your digital information services journey.

Want to learn more? Visit <u>ricoh.ca</u> or <u>contact</u> a Ricoh enterprise content management, information governance or security expert today.

Ricoh, a trusted partner

Today, for over 1.4 million customers around the world, Ricoh is unleashing the power of information to create better workplace experiences, streamline and connect workflows through process automation, and drive operational efficiency. Let's work together to discover how we can put information to work for you.

RICOH imagine. change.

Ricoh Canada Inc. 400-5560 Explorer Drive, Mississauga, ON L4W 5M3, 1-888-742-6417

©2025. Ricoh Canada Inc. All rights reserved. Ricoh and the Ricoh logo[®] are registered trademarks of Ricoh Company, Ltd. All other trademarks are the property of their respective owners. The content of this document, and the appearance, features and specifications of Ricoh products and services are subject to change from time to time without notice. Products are shown with optional features. While care has been taken to ensure the accuracy of this information, Ricoh makes no representation or warranties about the accuracy, completeness or adequacy of the information contained herein, and shall not be liable for any errors or omissions in these materials. Actual results will vary depending upon use of the products and services, and the conditions and factors affecting performance. The only warranties for Ricoh products and services are as set forth in the express warranty statements accompanying them.