Kitewcrks

Tackling Risk Gaps in the Compliance Era

Tim Freestone, CMO



The confluence we are now in...

LT.



Mainframe Era



Personal Computing Era



Client/Server Era



Enterprise Computing Era



Cloud Era

Cybersecurity



Mainframe Protection Era



ARPANET Era



Internet Protocols Era



Viruses Era



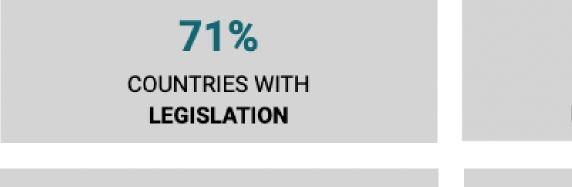
Hacker Era



APT Era



Data Protection and Privacy Legislation Worldwide



9%
COUNTRIES WITH
DRAFT LEGISLATION

15%
COUNTRIES WITH
NO LEGISLATION

5%
COUNTRIES WITH
NO DATA

^{*} According to the United Nations Conference on Trade and Development



The USA PATRIOT Act of 2001

DECEMBER 31, 2012

ferpa

The Family

Educational Rights

and Privacy Act of

1974 (FERPA), as

amended by the

Protecting Student

Privacy Act of 2012



The Sarbanes-Oxlev Act of 2002



The Federal Trade Commission's Safeguards Rule for **Financial Institutions**



MAY 23, 2002

The Gramm-Leach-Blilev Act (GLBA) Safeguards Rule





The Fair Credit Reporting Act (FCRA), as amended by the Fair and Accurate Credit Transactions Act of 2003

FEBRUARY 12, 2004



The Federal Information Processing Standard (FIPS) Publication 199: Standards for Security Categorization of Federal Information and **Information Systems**

MARCH 2006



The Federal Information

Processing Standard

(FIPS) Publication 200:

Minimum Security

Requirements for Federal

Information and

Information Systems

The Health Information Technology for **Economic** and Clinical Health Act (HITECH) of 2009

FEBRUARY 17, 2009

JANUARY 25, 2013



The Health Insurance Portability and **Accountability Act** (HIPAA) Omnibus Rule

APRIL 15, 2013



The National Institute of Standards and Technology (NIST) **Special Publication** 800-53A Revision 4

JULY 1, 2013



The Children's Online **Privacy Protection Act** of 1998 (COPPA) Amendment to the FTC's Children's Online Privacy **Protection Rule**

DECEMBER 18, 2014



The Federal Information Security **Modernization Act** (FISMA) of 2014



The Department of **Defense Directive** 8500: Cybersecurity Requirements for **DoD Contractors**

AUGUST 15, 2015



The Department of **Defense Directive** 8570: Cybersecurity Requirements for **DoD Contractors**



Department of **Defense Directive** 8500: Cybersecurity Requirements for **DoD Information** Systems and **Organizations**



MAY 8, 2016

The European Union's Network and Information **Security Directive** 2016/1148/EU

JUNE 8, 2017

SP 800 - 63B

JUNE 28, 2017

SP 800-171

APRIL 15, 2018

APRIL 16, 2018



The Payment Card Industry **Data Security Standard**



NIST Cybersecurity Framework Version 1.1

MAY 25, 2018



The General Data Protection Regulation (GDPR)

JUNE 28, 2018



FedRAMP

The Federal Risk and Authorization **Management Program** (FedRAMP) Security Assessment Framework Version 3.0

JANUARY 1, 2020



Cybersecurity **Maturity Model** Certification (CMMC)

JANUARY 21, 2021



Cybersecurity

(NIST) Special Publication 800-63B Digital Identity **Guidelines Version 2.0**

The National Institute of The National Institute of Standards and Technology Standards and Technology (NIST) Special Publication 800-171 Revision 1

Version 3.2.1

PCI DSS Version 3.2.1 Released

DSS



State Laws Signed To-Date

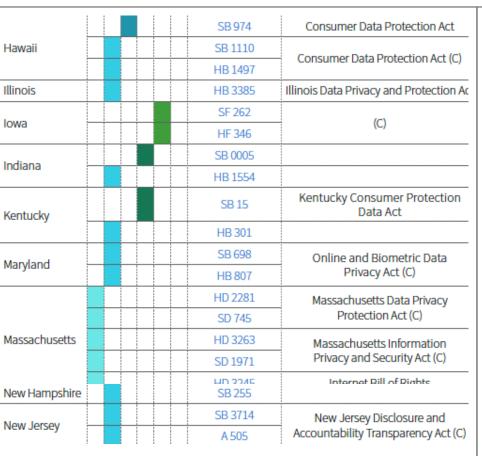
California	CCPA	California Consumer Privacy Act (2018; effective Jan. 1, 2020)
	Proposition 24	California Privacy Rights Act (2020; fully operative Jan. 1, 2023)
Colorado	SB 190	Colorado Privacy Act (2021; effective July 1, 2023)
Connecticut	SB 6	Connecticut Data Privacy Act (2022; effective July 1, 2023)
Virginia	SB 1392	Virginia Consumer Data Protection Act (2021; effective Jan. 1, 2023)
Utah	SB 227	Utah Consumer Privacy Act (2022; effective Dec. 31, 2023)

INTRODUCED
IN COMMITTEE
IN CROSS CHAMBER
IN CROSS COMMITTEE
PASSED
SIGNED

^{*} According to the IAPP



Active Bills



New York	SB 3162	(C)	
	A 4374		
	A 3593		
	A 3308	Digital Fairness Art (C)	
	S 2277	Digital Fairness Act (C)	
	SB 365	New York Privacy Act	
	A 2587	New York Data Protection Act	
	SB 5555	It's Your Data Act	
Oklahoma	HB 1030	Oklahoma Computer Data Privacy Act	
Oregon	SB 619		
Rhode Island	HB 5745	Rhode Island Personal Data and Online Privacy Protection Act	
Tennessee	SB 73	Tennessee Information Protection Act (C)	
	HB 1181		
Texas	HB4	Texas Data Privacy and Security Act	
Vermont	HB 121		
Washington	HB 1616	Baralala Britana A + (G)	
	SB 5643 HB 1367	People's Privacy Act (C)	
Minnesota	SB 950	(0)	
	HB 1892	(C)	
Montana	SB 384	Consumer Data Privacy Act	

INTRODUCED
IN COMMITTEE
IN CROSS CHAMBER
IN CROSS CHAMBER
IN CROSS COMMITTEE
PASSED
PASSED
SIGNED

^{*} According to the IAPP



Factors Determining Security Spending



Q: Which of the following factors help determine the priority of your security spending?





Data is at the center of Compliance...



Structured Data (Databases)



PII



Semi-structured Data (Logs and Emails)



PHI



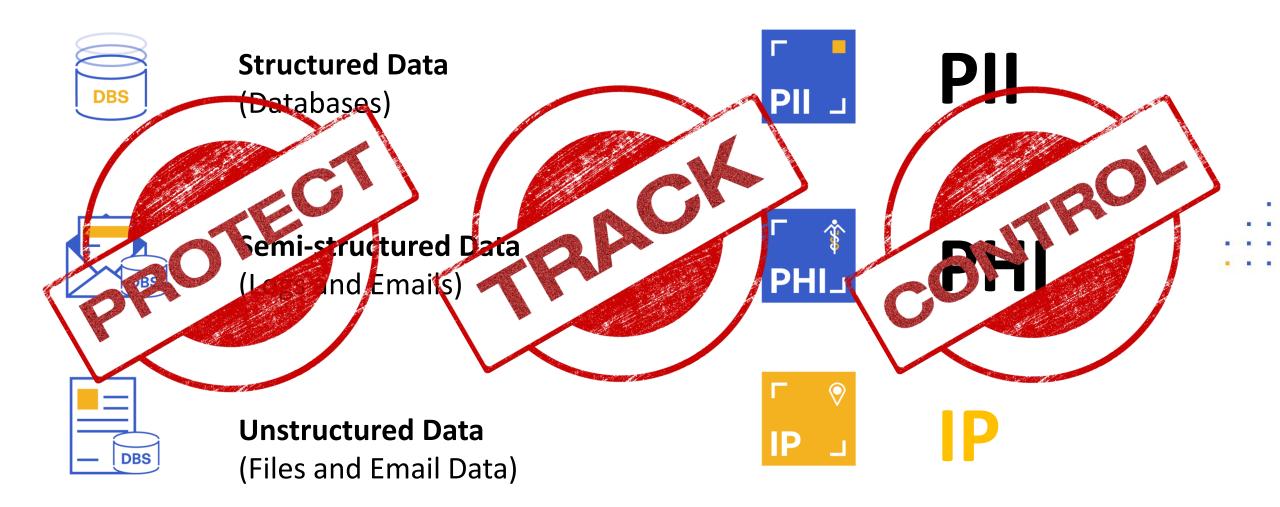
Unstructured Data (Files and Email Data)







Compliance Requirements



The Growing Challenge – Data on the Move



Structured Data (Databases)



PII



Semi-structured Data (Logs and Emails)



PHI



Unstructured Data (Files and Email Data)



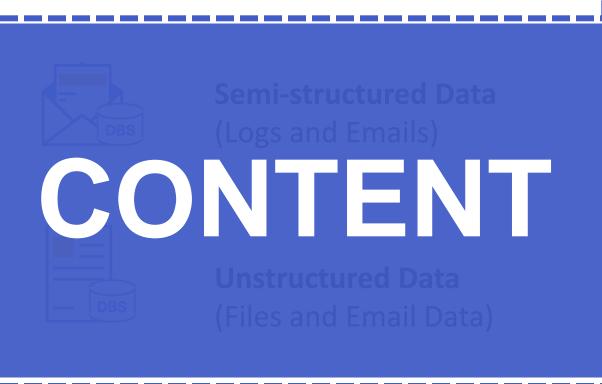




The Growing Challenge – Data on the Move



Structured Data (Databases)







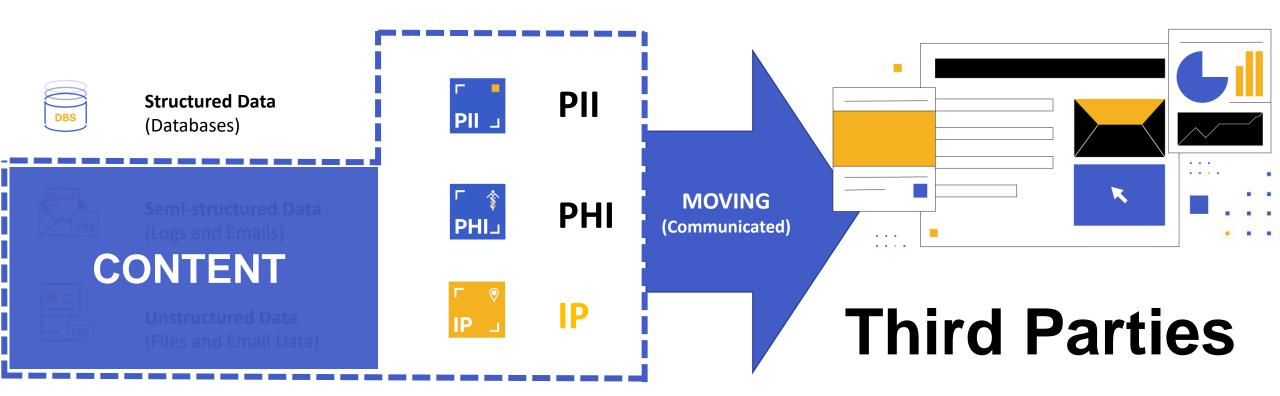






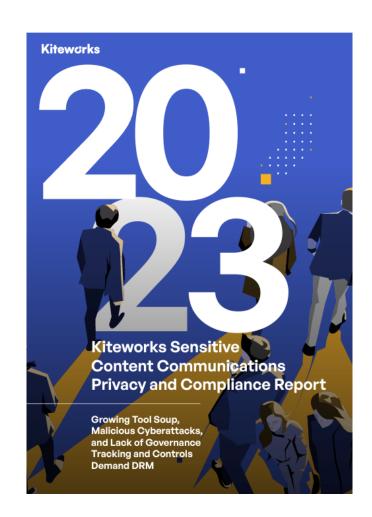


Data Protection and Compliance Nightmare



2023 Sensitive Content Communications Privacy and Compliance Report

- Objective: Assess organizational maturity related to digital communications of confidential data
- Surveyed over 780 IT, security, risk, and compliance professionals in 15 different countries
- Targeted private sector enterprises in different industries such as manufacturing, finance, pharmaceuticals, healthcare, government, legal, and more
- Asked them 45 questions about sensitive content communications privacy and compliance



Top Report Takeaways

PROBLEM: Organizations struggle to protect and control sensitive, unstructured data using traditional edge computing security and compliance protocols.

Nearly **75%**

of organizations indicate their measurement and management of sensitive content communications needs improvement.

62%

of organizations experienced financial damage as a result of an attack on sensitive content communications.

According to Gartner

Data-Centric Security Will Be Key to a "Data Everywhere" World



According to Kiteworks

Compliance

Data-Centric Security Will Be Key to a "Data Everywhere" World



Gap #1

Third Party Risk Management

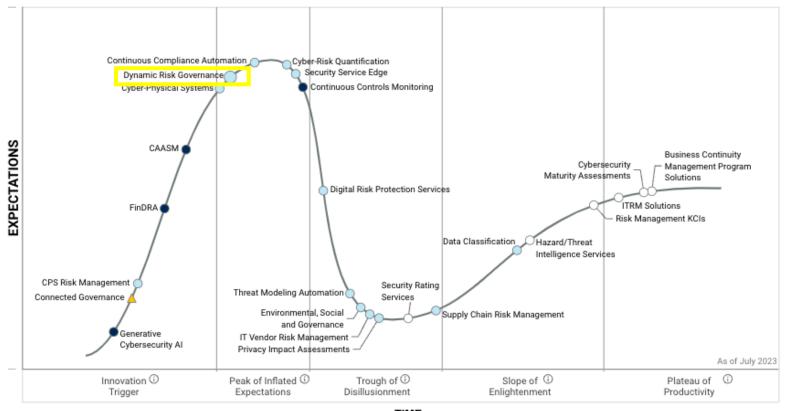
Tackling the Issue: TPRM







Hype Cycle for Cyber Risk Management, 2023



TIME

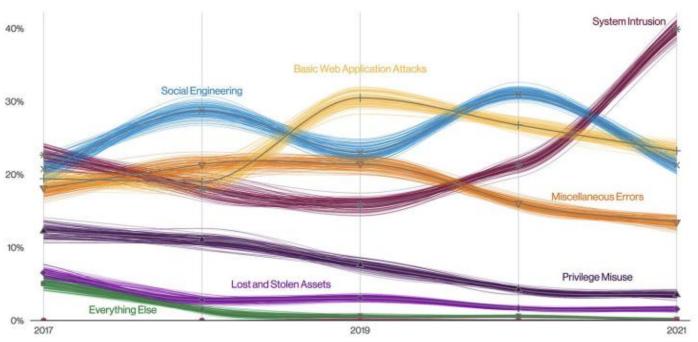
Dynamic Risk Governance

The risk landscape has been changed by several important drivers, among them are:

- •The increased interconnectivity of risks. As organizations have become more complex, risks have become more interconnected. Today's top organizational risks, such as supply chain, cybersecurity and third-party risk, all cut across large parts of the organization.
- •The increased digitalization of organizations. This has meant the creation of new, fully digital risks, such as ransomware, as well as an increase in the speed and volatility of other risks such as third-party risk. Risks now change in their nature more often and quickly.







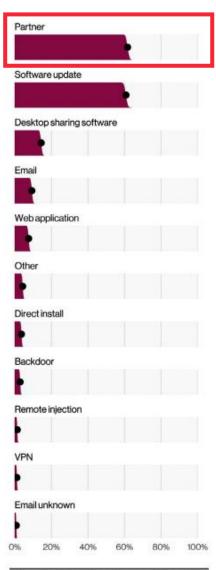
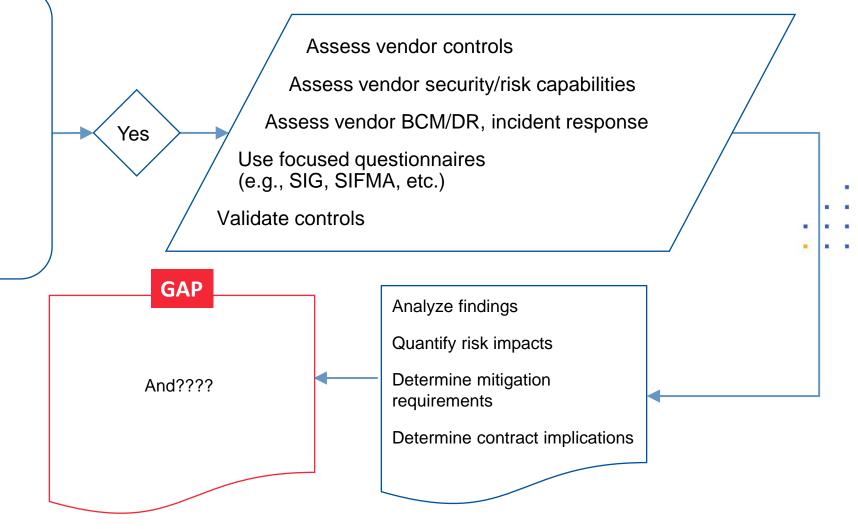
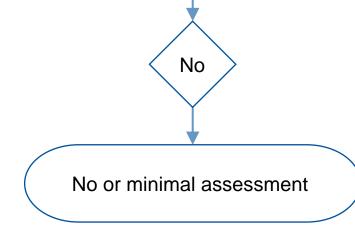


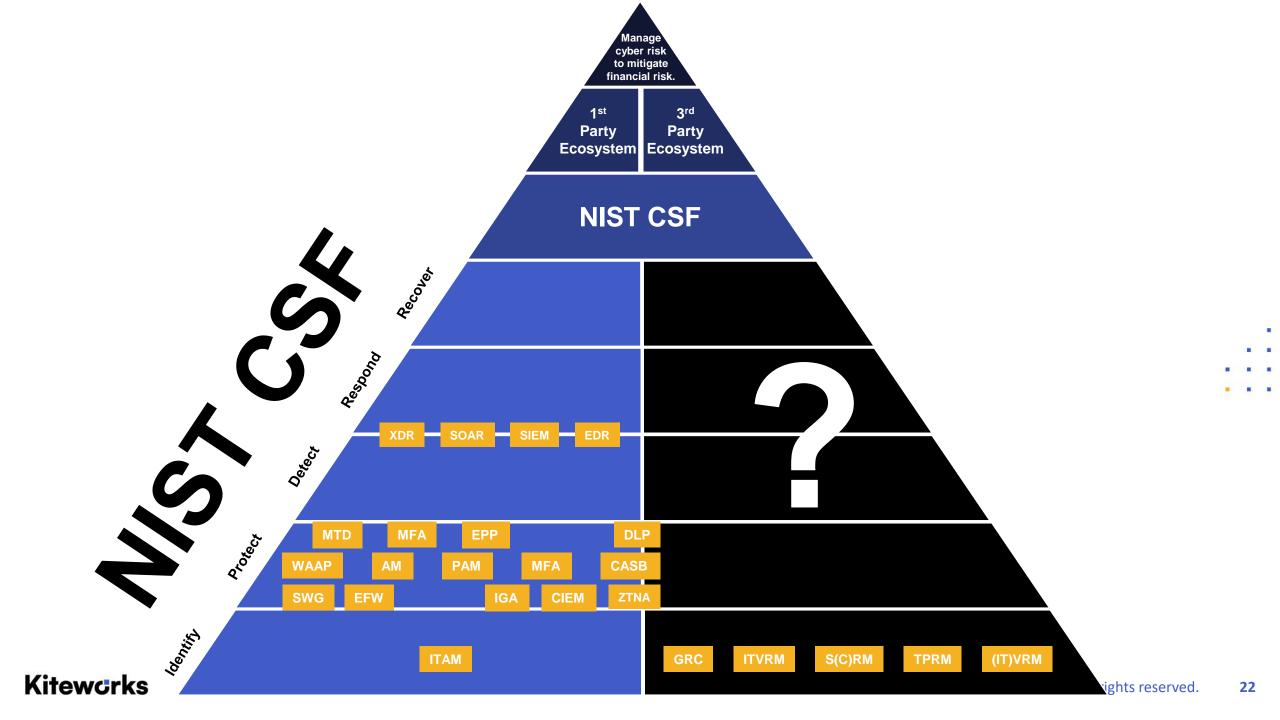
Figure 36. Top Action vectors in System Intrusion incidents (n=3,403)

Triage Approach to Assessing Risks According to Gartner

- Does the vendor access data? (Data sensitivity and volume)
- Does the vendor access systems? (Criticality of the system)
- Does the vendor support business processes? (Criticality of the process)







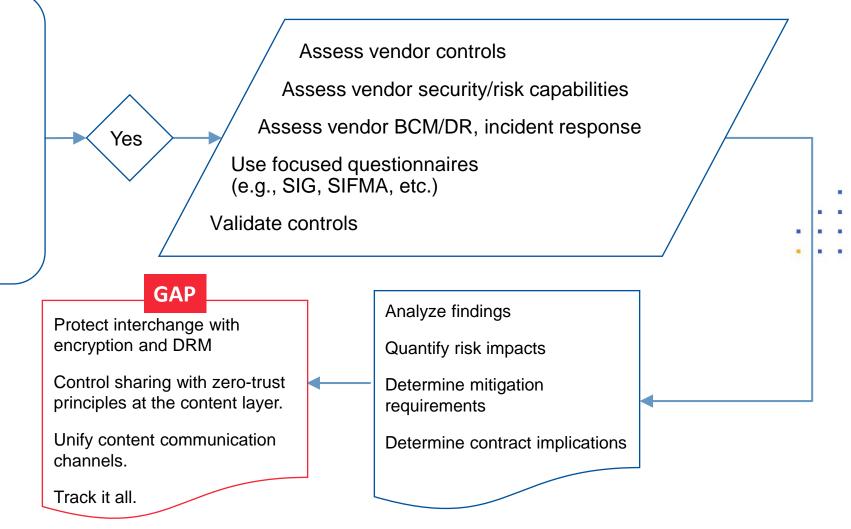
Close The Gap

- Does the vendor access data? (Data sensitivity and volume)
- Does the vendor access systems? (Criticality of the system)

No

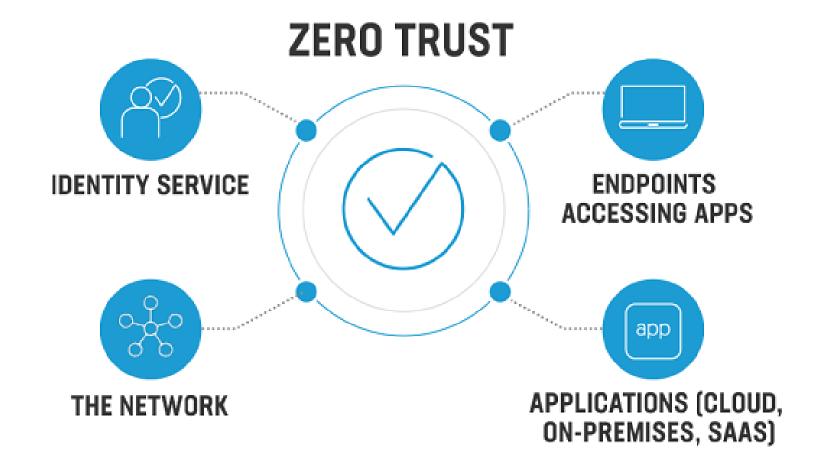
No or minimal assessment

3. Does the vendor support business processes? (Criticality of the process)



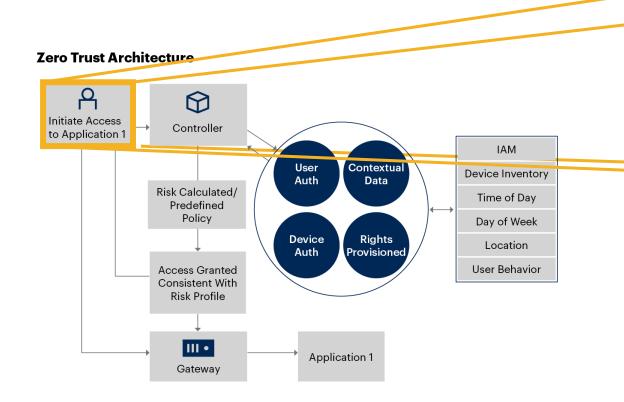
Gap #2 Zero Trust

Zero Trust





Extending Zero Trust for Compliance





Zero-Trust strategies tend to focus on technology access. Applications and workloads.

But what about the content that moves *through* and *beyond* applications and workloads?

To Put It Another Way

What Are Practical Projects for Implementing Zero Trust?



Zero Trust (Security)

Security Mindset or Paradigm



Zero Trust Strategy

Systematic Approach
Replacing Implicit Trust
With Adaptive Trust



Zero Trust Initiatives

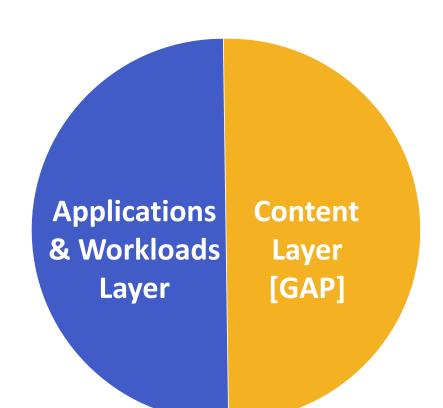
Specific Projects/ Architectures

- 1. User to Application Segmentation (ZTNA)
- Workload to Workload Segmentation (Identity-Based Segmentation)

3.User-to-content segmentation



Data-centric Compliance Via Zero Trust Has Two Critical Layers



Content doesn't *stay* in the managed applications and workloads.



Gap #3

Digital Rights Management







What It's Not

According to Gartner....

Enterprise digital rights management offers persistent data-centric defense, solving security and compliance challenges with clear goals and governance. Security and risk management technical professionals should follow this EDRM framework when building use cases to design, implement and operate.





A cryptographic element: Information is encrypted so that protection travels with data no matter where it moves or rests.



An identity element: Users must be authenticated and match policies related to specific user roles and groups before accessing rights-protected data on any system.





A granular usage control element: Users are granted specific rights within applications (such as the ability to only view, edit, print, copy/paste, or screen capture sensitive information).



Administratordefined protection of intellectual property (IP):



User-initiated protection of arbitrary files



Today's Approach to DRM is Legacy



"A cryptographic element: Information is encrypted so that protection travels with data no matter where it

moves or rests"



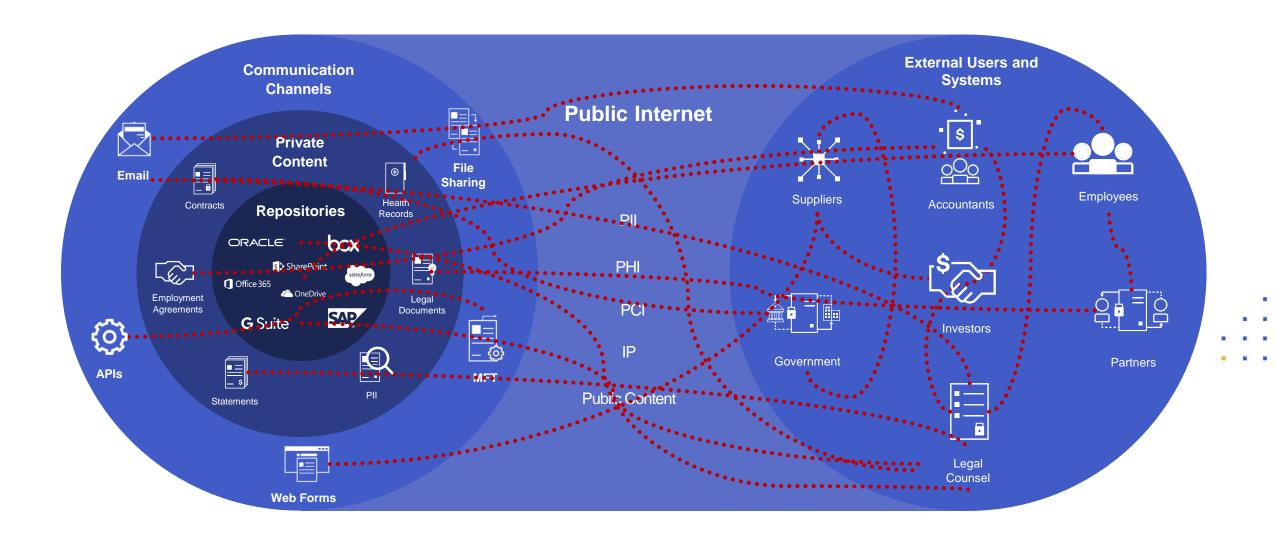
- Issues in scale and functionality low adoption
- File leaves the/a network increased risk



Kitewcrks

Solutioning the Gaps





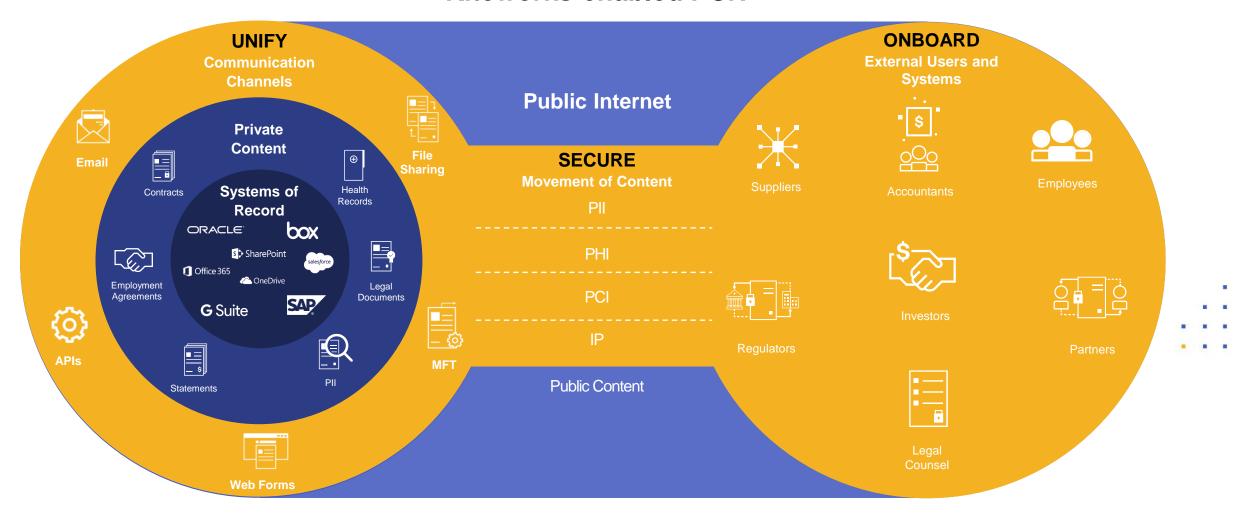
DISPARATE SYSTEMS POOR TRACKING NO CONTROL WEAK SECURITY

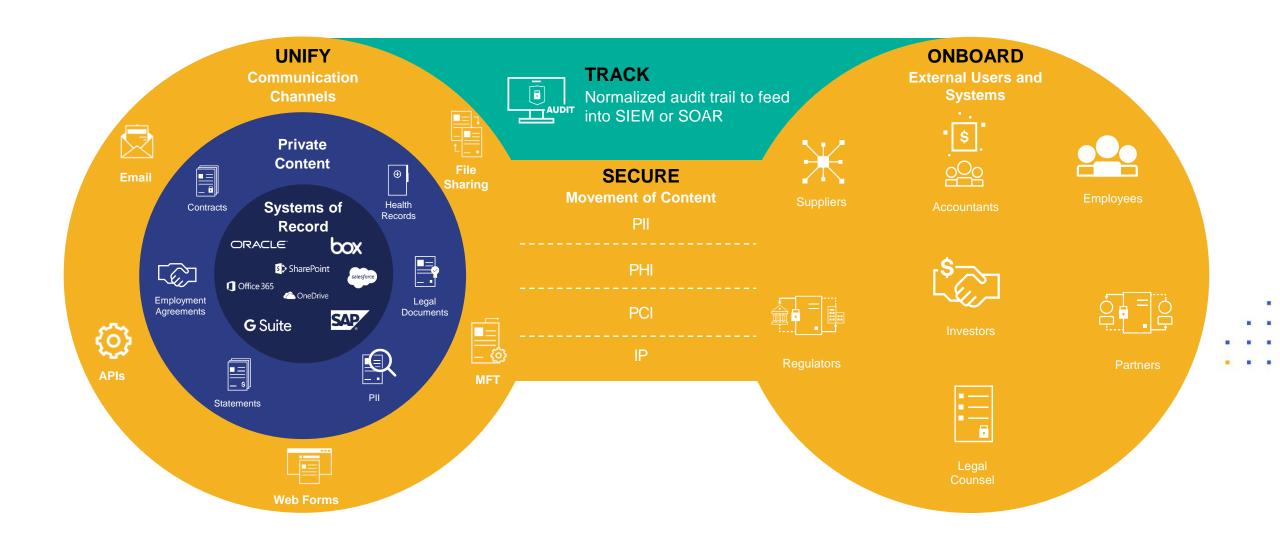
A Private Content Network

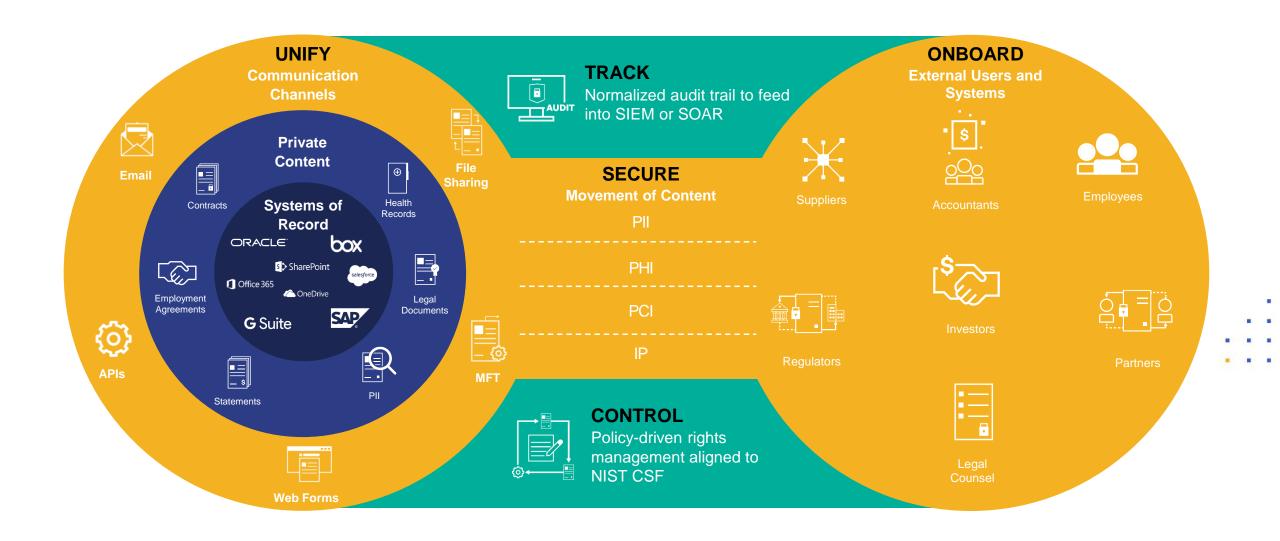
A Kiteworks-enabled Private Content Network (PCN) unifies, tracks, controls, and secures the communication of private information.

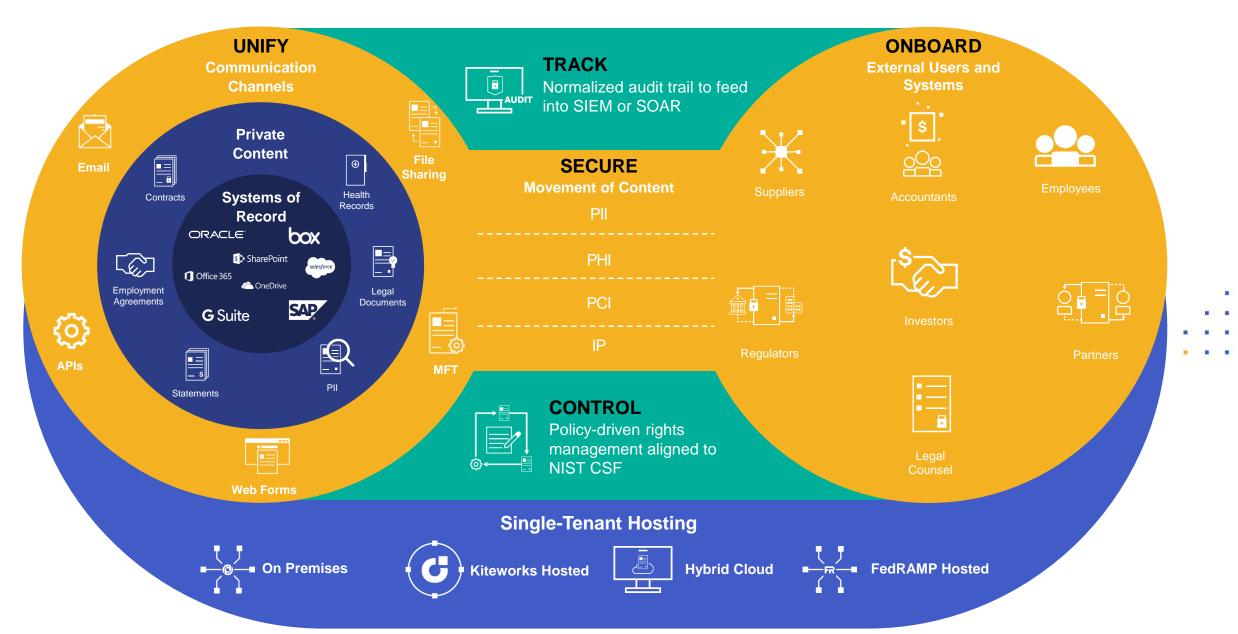


Kiteworks-enabled PCN

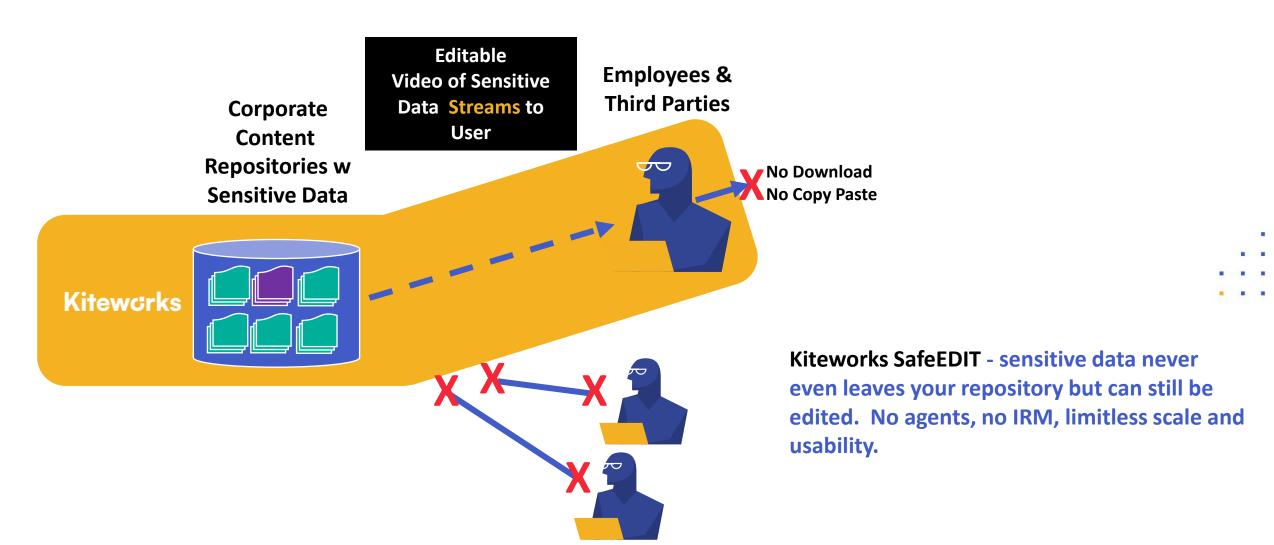








Enter Next-Gen DRM



Just When You Thought It Was Safe to Go Back in the Pool

Enter: Artificial Intelligence Risk

The Exploding Problem



Generative AI a Top Emerging Risk for Organizations: Gartner Survey

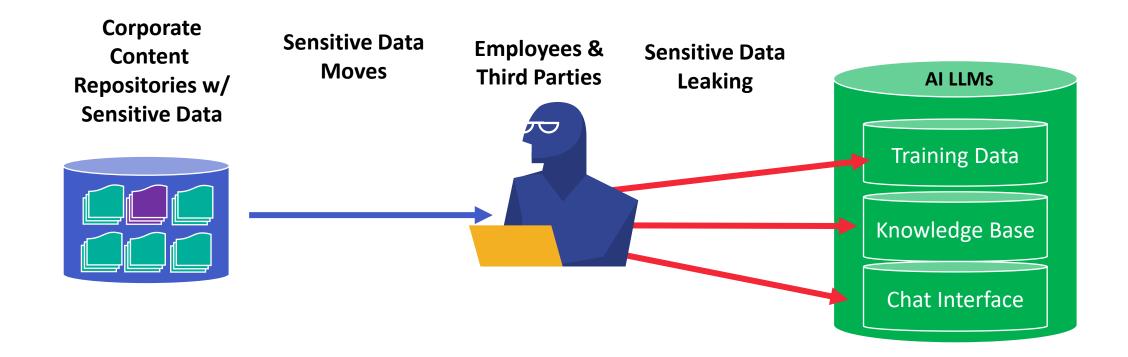
Intellectual property, data privacy and cybersecurity are three areas that need to be addressed quickly, according to Gartner.

teaming' of Al models. Security was an afterthought

Sensitive Biz Data to Chatar, Kaising Security Fears

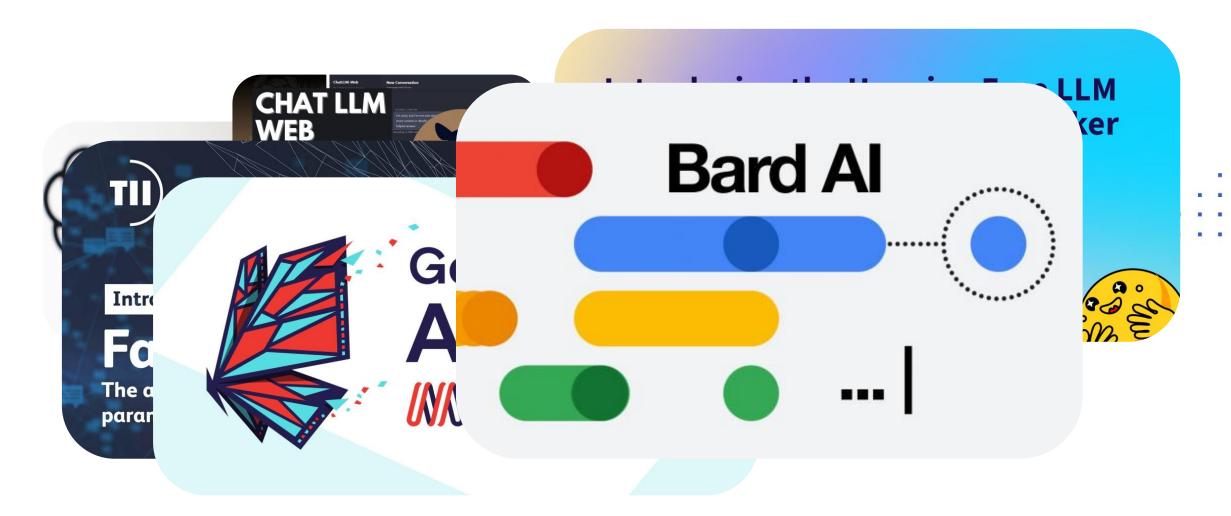
More than 4% of employees have put sensitive corporate data into the large language model, raising concerns that its popularity may result in massive leaks of proprietary information.

What is happening?



Why is the problem growing exponentially?

Because AI LLMs are exploding in offerings and use.



Further compounding the problem...

Al can be a BAD BAD Boy



Why is this happening?

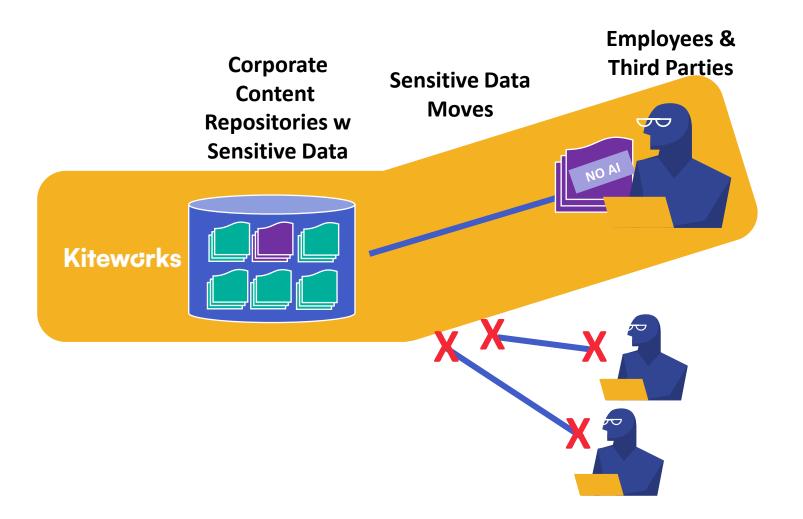
SIMPLE:

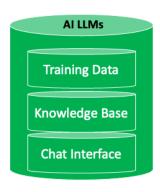


Lack of content-based risk policies to prevent Al ingestion.



Solutioning: Content-defined Zero-Trust Controls w/ a PCN



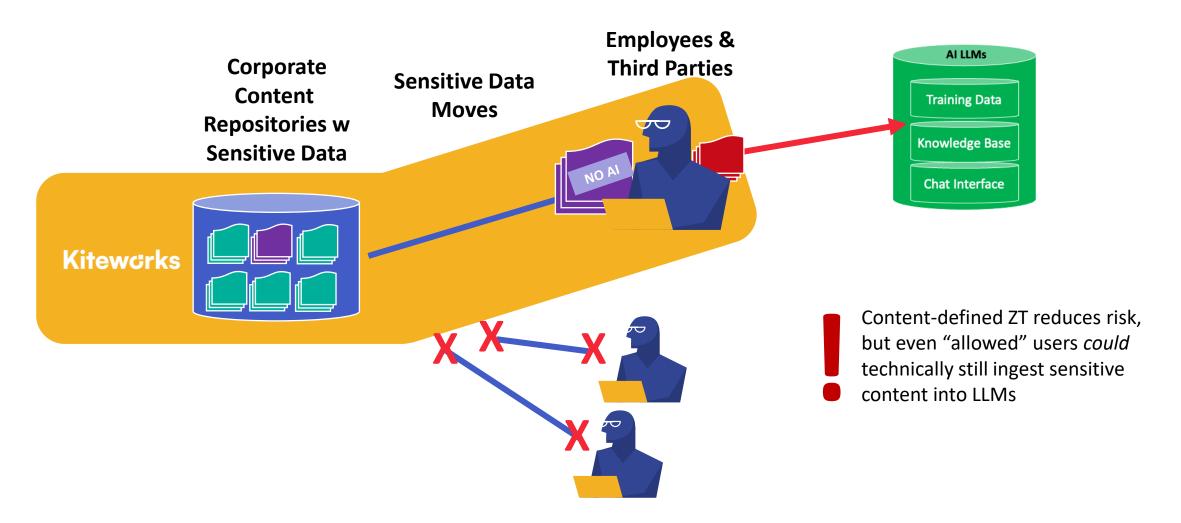


Least privilege access policies defined at the content layer for Risk Reduction

Apply access and use controls by employees and third parties for "least privilege" access to content assets, defined by sensitivity of content assets.

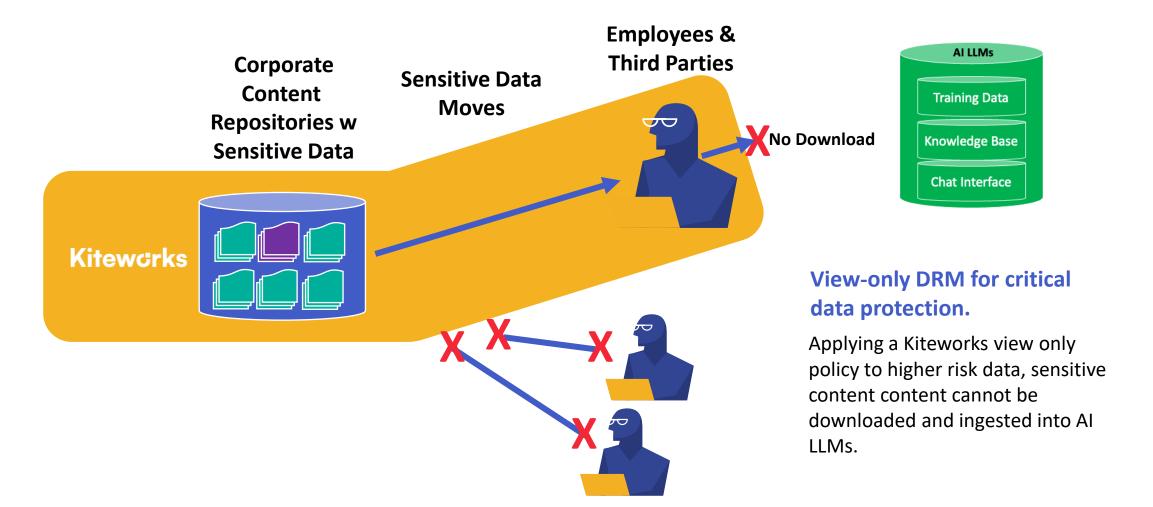
Watermarking can be applied to alert users that specific content should not be used in AI LLMs.

Solutioning: Content-defined Zero-Trust Controls w/ a PCN



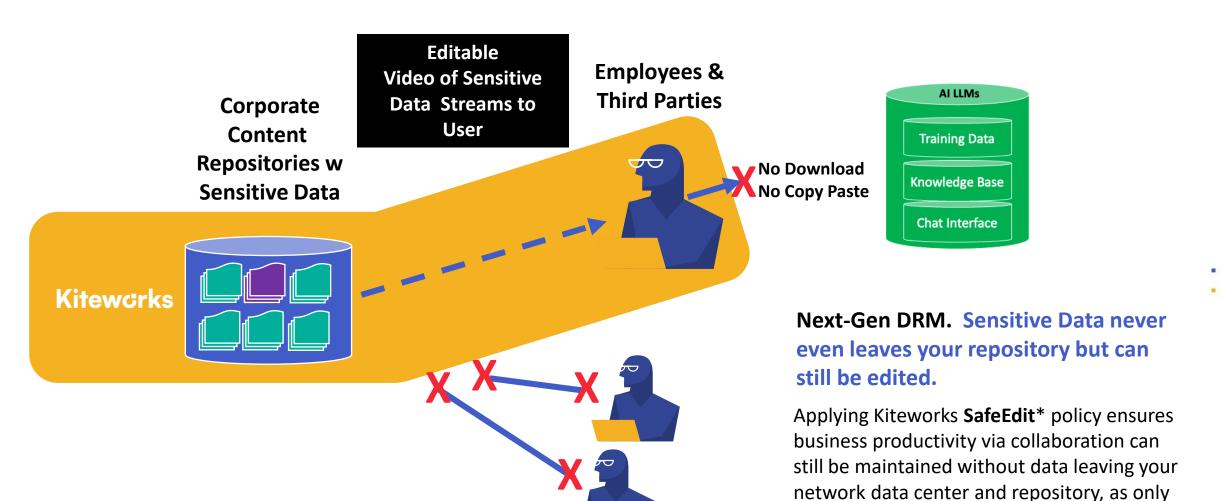


Solutioning: View-only DRM protection with a PCN





Solutioning: Next-gen DRM protection with a PCN

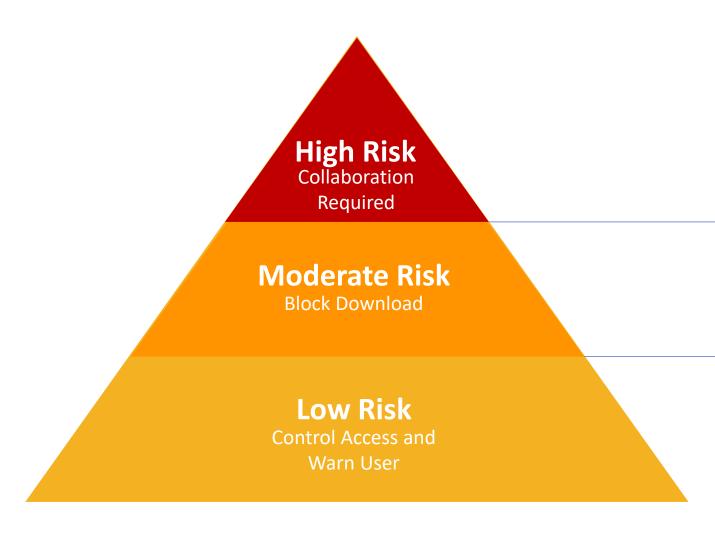




an editable video image streamed is

transmitted.

Protect your sensitive content from AI Leaks



Next-Gen DRM — with SafeEDIT* video streamed editing to block downloads and copy paste.

View-only DRM – Block downloads while still transmitting information.

Content-defined Zero Trust
Controls – Least-privilege access and applying watermarks.

To recap:

- 1) We're in the compliance era together
- 2) Data is everywhere and so to should compliance controls, tracking and reporting
- 3) Some issues need to be tackled:

Zero-trust gap

TPRM gap

Antiquated approach to DRM

4) Data and privacy protection and compliance has a new vector to be addressed: Al

Kitewcrks

. . . .

THANK YOU

