

# Assessing and Managing Your Total Cost of Cyber Risk

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# AGENDA

- Overview of cyber analytic sources
- Loss modeling
- Updates in cyber insurance
- Aligning risk management strategies to cyber exposure
- Q&A



# Cyber Ranked the Most Challenging Risks to Manage

Top ranked risks over a three-year horizon (Percentage of organizations who ranked risks in top three)



47%

CYBER SECURITY

- Ransomware; Phishing; etc.



37%

STRATEGIC

- Competitors; Industry disruptions; etc.



34%

BUSINESS OPERATIONS  
INTERRUPTIONS

- Supply chain disruptions; Production interruptions; etc.



33%

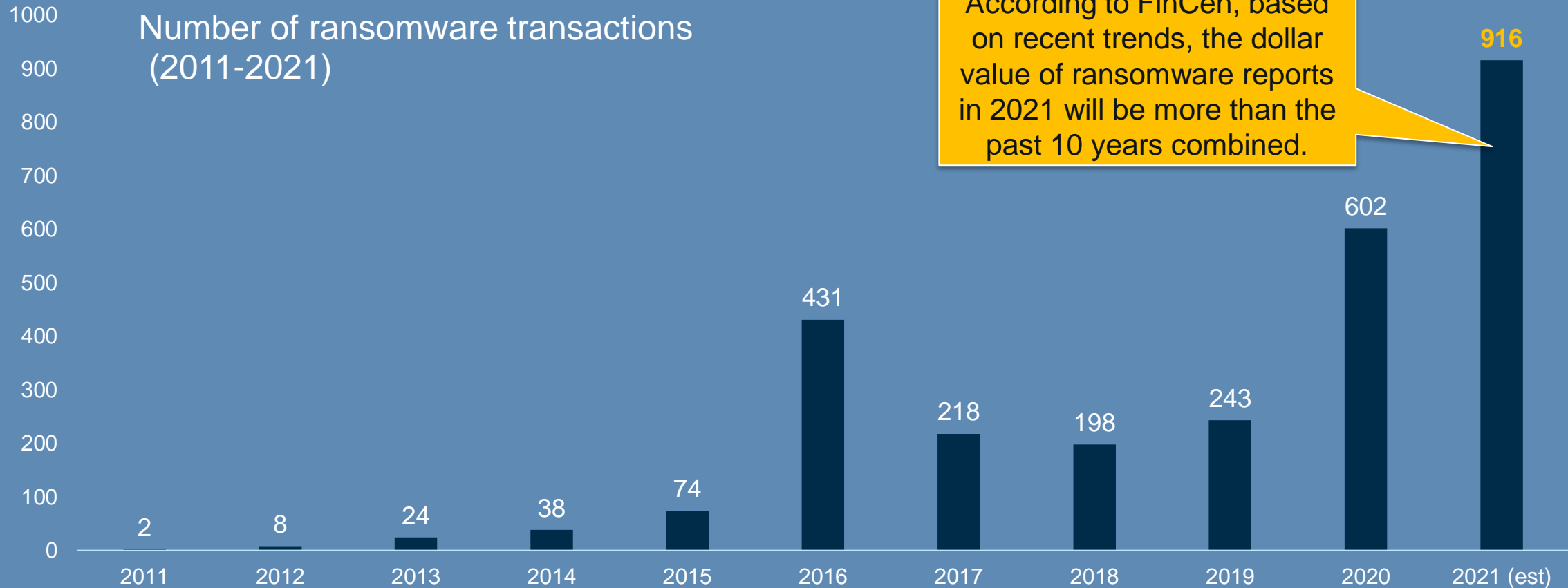
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- Credit; Liquidity; etc.

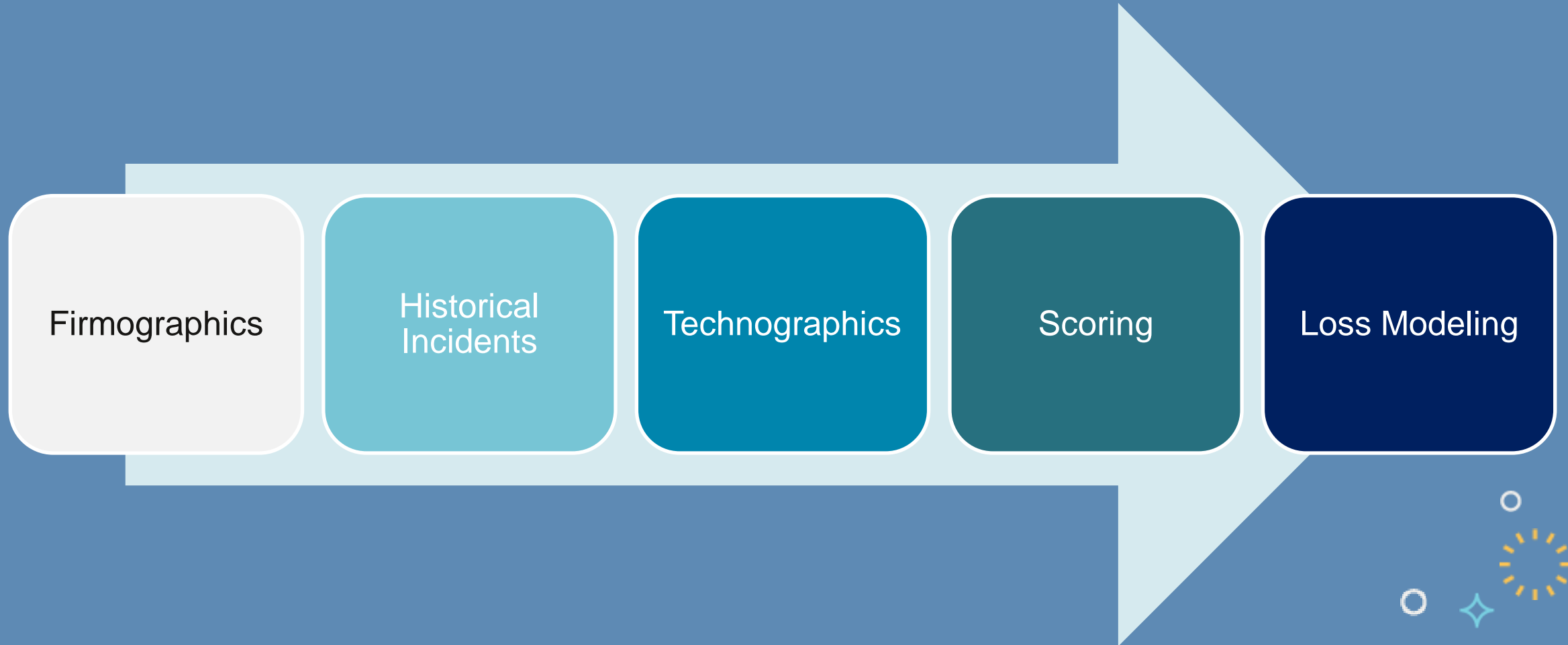


# Rising financial impact of cyber crime

Number of ransomware transactions  
(2011-2021)



# Five Sources of Cyber Analytics Data



# Firmographics

Metrics including:

- Revenue
- Employee count
- Industry
- Geographic location(s)
- Company hierarchy



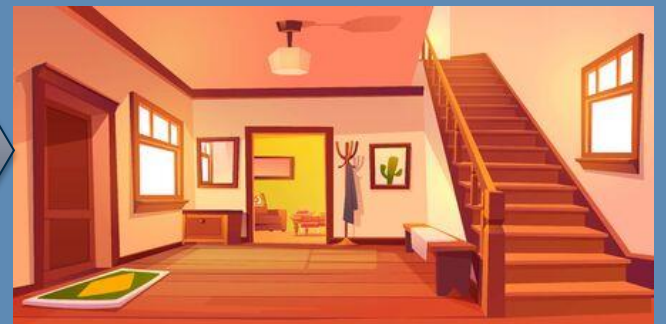
# Historical Incident Data



# Technographics



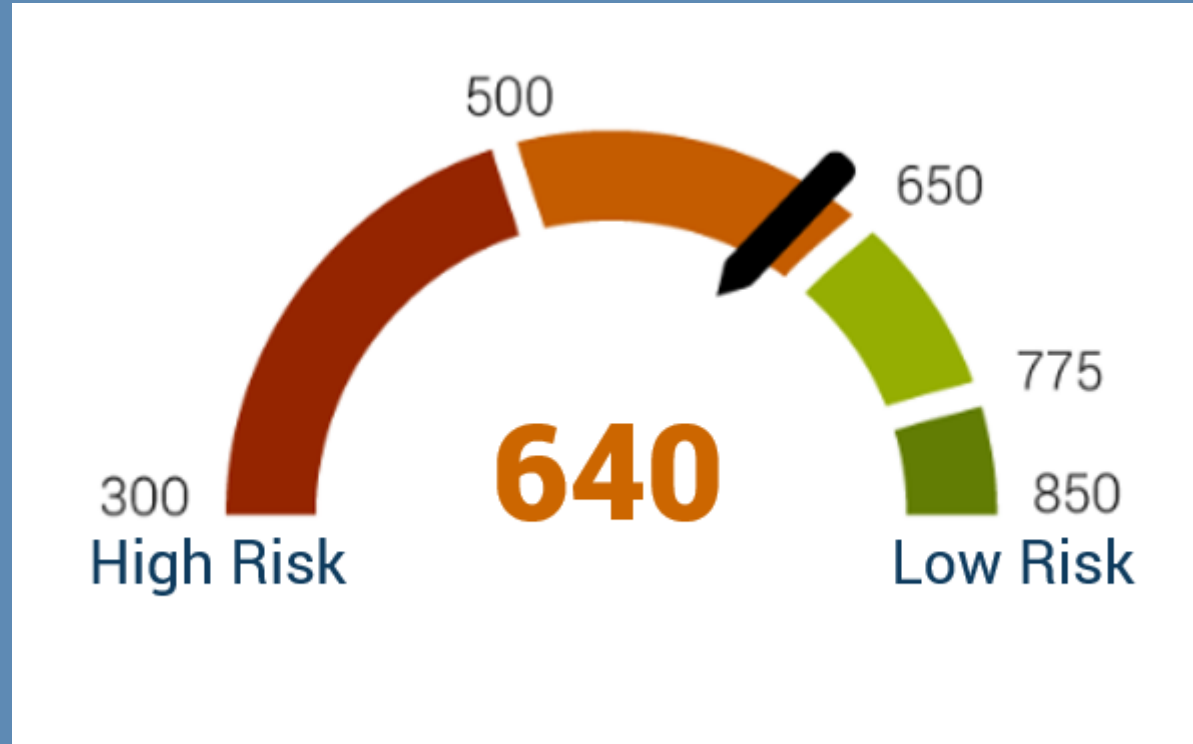
**Outside-in**



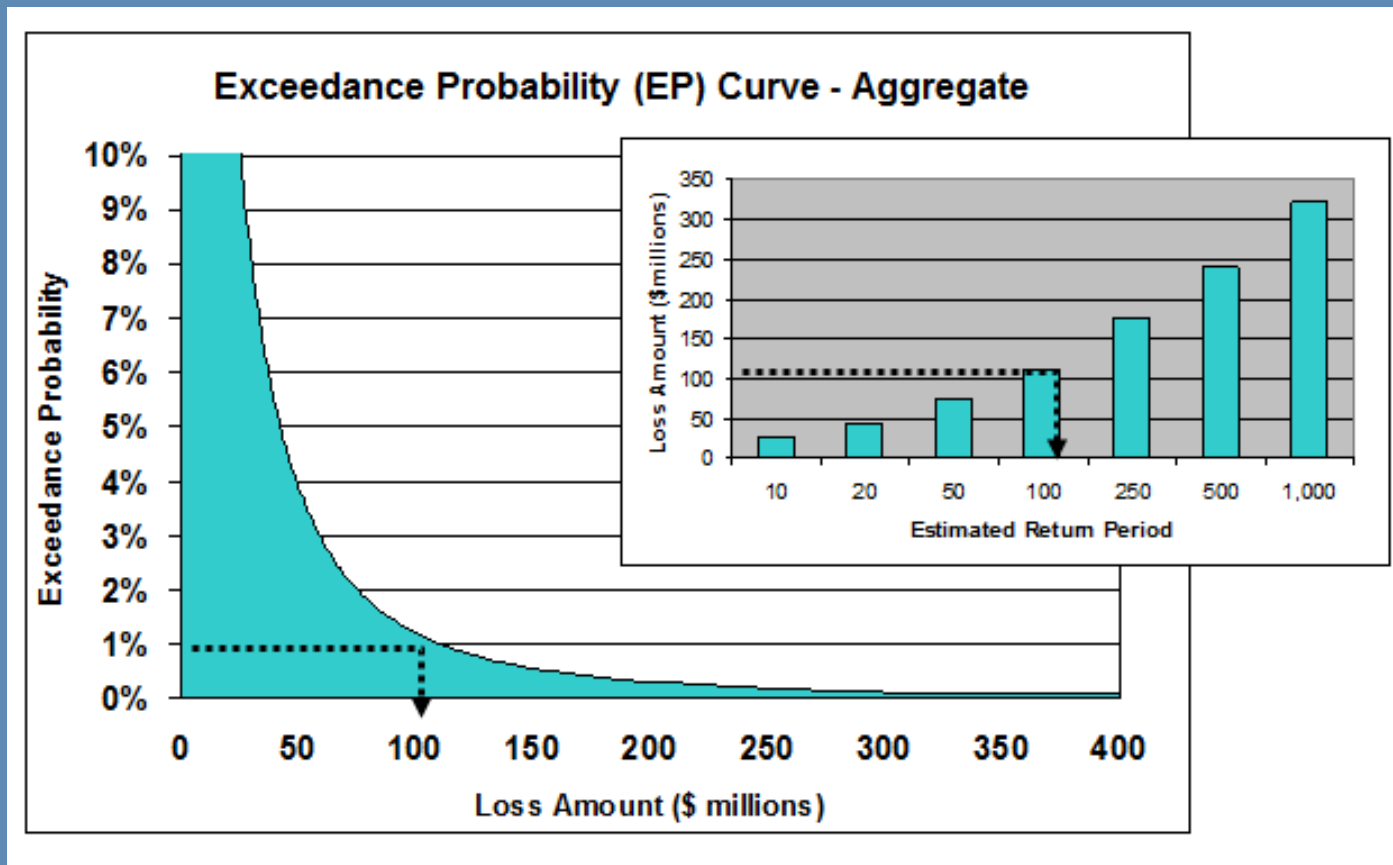
**Inside-out**



# Scoring



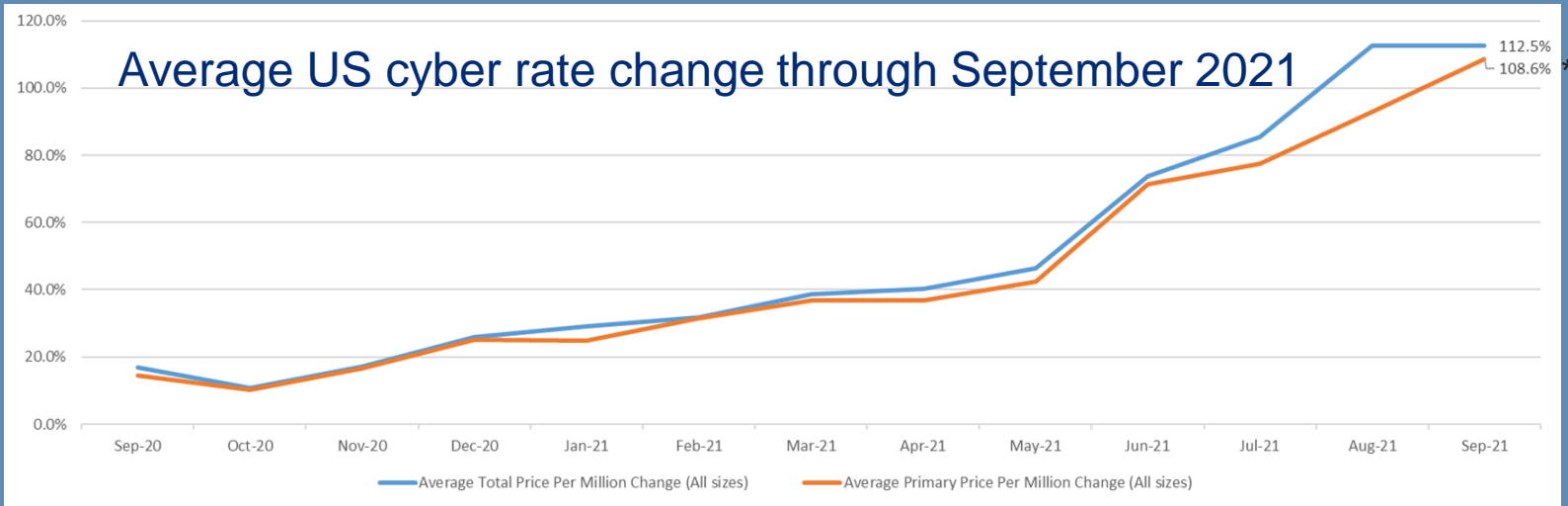
# Bringing it together: Loss Modeling



Various types of loss models:

- Scenario models
- Probabilistic models
- Losses for individual cyber perils (ex: ransomware)
- Correlated models
- Aggregation models

# Cyber Insurance: Rising Rates Drive Hard Decisions



All Sept 2021 renewals**	Median	Average
Total price per mil	97%	174%
Primary price per mil	83%	155%

\*\*Data includes 30% of renewals with limit changes:  
**23% reduced limits**  
**7% increased limits**

Sept 2021 renewals*	1 <sup>st</sup> Quartile	Median	Average	3 <sup>rd</sup> Quartile
Total price per mil	46.2%	88.3%	112.5%	128.3%
Primary price per mil	38.9%	78.1%	108.6%	126.6%

### Takeaways:

1. Capacity changes are driven by insureds minimizing increases as well as less available capacity.
2. Clients who saw outsized increases were forced to consider reduced limits.

\*Programs that renewed with expiring limits | Excludes 30% of Sept. renewals due to limit changes.

# Cyber insurance market summary

## Claims



Claims frequency and severity remain high

Ransomware, systemic risk, and regulations continue to drive concern

Tech E&O and Media now also a concern

## Rates



Losses accelerating pricing pressure even on loss free accounts with good controls

**Expect increases to continue into 2022**

## Capacity & Attachment



Insurers aggressively managing global capacity and increasing SIRs

Distressed classes and large towers may see capacity challenges

## Underwriting



3<sup>rd</sup> parties being used to externally scan environments

Expect inquiries on recent supply chain events, biometric info, and operational technology

## Coverage



Carriers scaling back or not offering ransomware-related coverages if a client has poor controls

More scrutiny on CBI and regulatory cover

# Robust cybersecurity controls are key to risk mitigation, resilience, and insurability



Multifactor authentication (MFA) for remote access and admin/privileged controls



Endpoint Detection and Response (EDR)



Secured, encrypted, and tested backups



Privileged Access Management (PAM)



Email filtering and web security



Patch management and vulnerability management



Cyber incident response planning and testing



Cybersecurity awareness training and phishing testing



Hardening techniques, including Remote Desktop Protocol (RDP) mitigation



Logging and monitoring/network protections



End-of-life systems replaced or protected



Vendor/digital supply chain risk management

# Strategize for renewals

## Excellent controls are baseline to access cyber insurance coverage



### Controls

#### Improve security and claims posture:

- Address potential security gaps prior to underwriting to achieve optimal results.
- Leverage carrier preferred vendors and access solutions to improve security posture.
- Update and practice incident response plan specific to ransomware scenarios.
- Identify vendor and legal counsel partners you might engage and evaluate against insurer's panel.
- Identify any problematic IP addresses & remote desktop protocols (RDP).



### Structure

#### Explore structure options:

- Prioritize program components and goals: carrier partners, limits, attachment, coverage, overall structure, and consider ability to retain risk.
- Consider alternative terms and conditions to minimize increases and maximize coverage, including increased retentions and alternative limit options.
- Use of insurers in the US, London, and Bermuda may increase terms available.



### Underwriting

#### Provide robust underwriting data:

- Leverage assessment tools to minimize need for multiple supplemental applications (includes ransomware questions and provides additional insights).
- Prepare for additional questions and applications; ransomware supplemental will still be required.
- Highlight significant cybersecurity updates and improvements over past year – especially those in the top 12!



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Q & A



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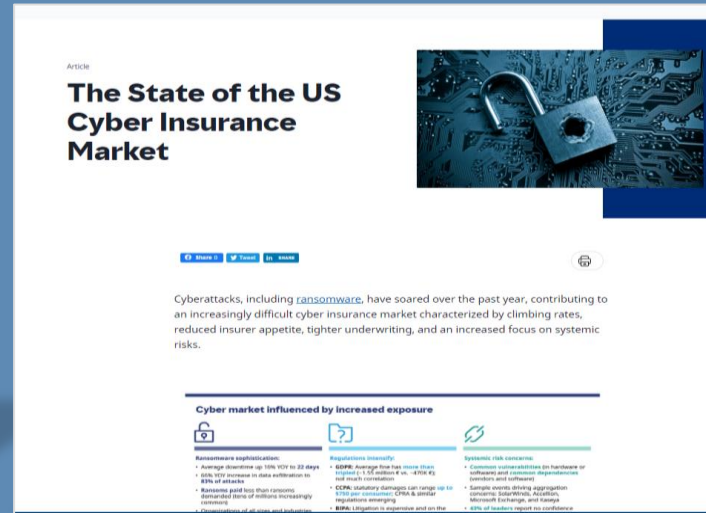
# Appendix: Additional reading and resources



[2021 AFP Risk Survey](#)



[2020 AFP Strategic Role of Treasury Survey](#)



[The State of the Us Cyber Insurance Market](#)



[The Marsh McLennan Cyber Handbook](#)

