# Seminar on Reinsurance

June 5–6, 2023 Westin Philadelphia Philadelphia, PA



Julie Halper 2023 Chair



Stephanie Rabin 2023 Vice-Chair

The Reinsurance Working Group Welcomes You!

## **Antitrust Notice**

- The Casualty Actuarial Society is committed to adhering strictly to the letter and spirit of the antitrust laws. Seminars conducted under the auspices of the CAS are designed solely to provide a forum for the expression of various points of view on topics described in the programs or agendas for such meetings.
- Under no circumstances shall CAS seminars be used as a means for competing companies or firms to reach any understanding – expressed or implied – that restricts competition or in any way impairs the ability of members to exercise independent business judgment regarding matters affecting competition.
- It is the responsibility of all seminar participants to be aware of antitrust regulations, to prevent any written or verbal discussions that appear to violate these laws, and to adhere in every respect to the CAS antitrust compliance policy.

## Code of Conduct for CAS Events

• The CAS is dedicated to providing a harassment-free conference experience for everyone. We do not tolerate harassment or any other improper behavior of conference participants in any form.

### Scope of the Code:

 All event participants, CAS staff members, guests, sponsors, speakers, partners, exhibitors, volunteers, and vendors/exhibitors must comply with this Code of Conduct for CAS Events. We ask that you join us in agreeing to engage, collaborate, and connect with other participants and event attendees in healthy ways.

## Wi-Fi Access

Attendees of the Reinsurance Seminar have access to complimentary Wi-Fi throughout the hotel.

Network: Westin\_Meeting

Password: CAS23

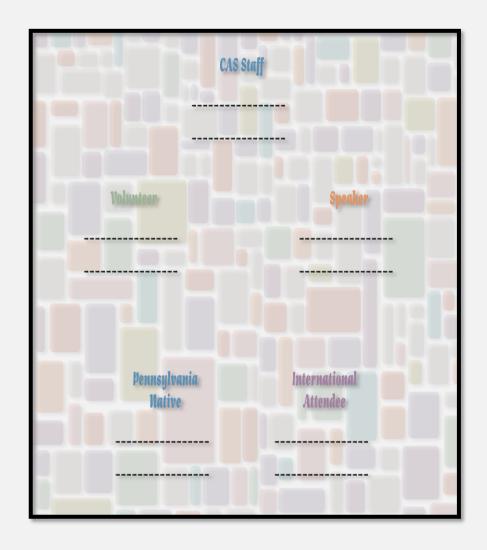


## Download the CAS Events App!

- View slides
- Email presentation notes
- Favorite sessions
- Participate in polling
- Fill out surveys
- Message attendees







# Networking Scavenger Hunt Raffle

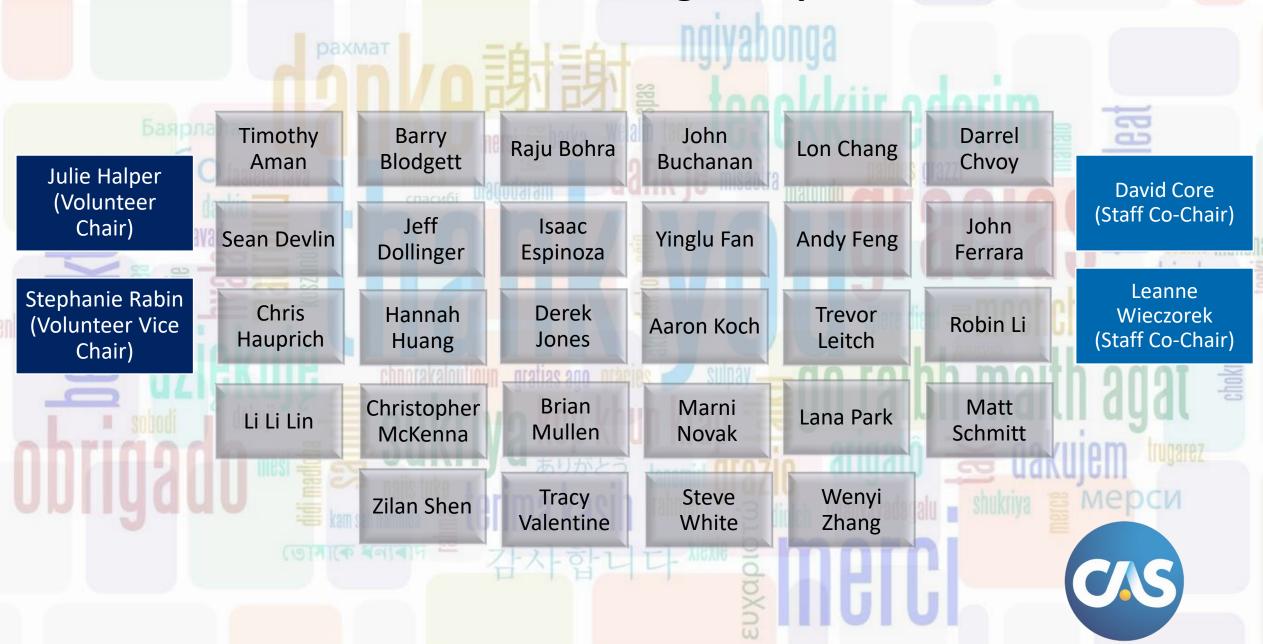
- Find someone who matches the criteria in the rows on your treasure map! Have them fill out their name and company for verification.
- Please note: You must have five different names (one per slot).
- Please complete and submit this sheet to the CAS Registration Desk by 9:45 AM ET on Tuesday, June
   6.
- (Form available with your conference materials.)

## **Evaluations**

- Evaluations will be emailed at the end of each day of the event.
- Links to the session surveys are available in the mobile app.



### 2023 Reinsurance Seminar Working Group Members & CAS Staff



## Sponsors









## Meet Our Panel

### Stephanie Rabin

SVP & Chief Strategy Officer Holborn Corporation



Mohit Pande
Chief Underwriting
Officer, Property
Swiss Re



#### Michael Millette

Managing Partner
Hudson Structured
Capital Management



### Mike Quigley

Executive Vice President,
Head of Property
Underwriting &
Multiline, Risk
Quantification
Munich Reinsurance
America, Inc.



Kelly Superczynski
Head of Capital Advisory
Office of the CEO Aon Plc.



### **GS-1: Views from Inside the Hard Market**

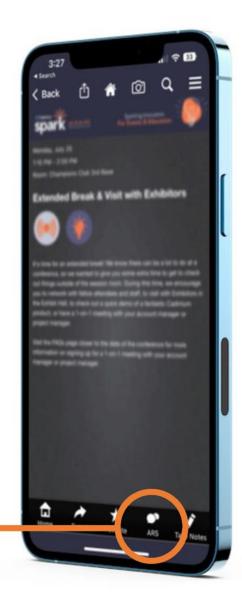
For over a decade, we have wondered when or even IF the reinsurance market would harden; some questioned if the concept of hard and soft market cycles existed. But this year, we now have a sort of Grey Swan upon us:

- The "Everything Bubble" Has Burst
- Inflation hit its highest levels in 25 years
- And there's Social Inflation Too!
- Investors from Inside and Outside the Industry Are Pulling Back
- The Reinsurance Market Has Seen 6 Straight Years of Poor Results
- Reinsurance Markets Left the Business or a Segment with Limited New Entrants



### Get your devices ready for a poll!

- 1. Locate the session in the mobile app.
- 2. Tap the "p" button on the bottom menu bar of the session to open the poll.
- 3. The poll will launch when polling begins.



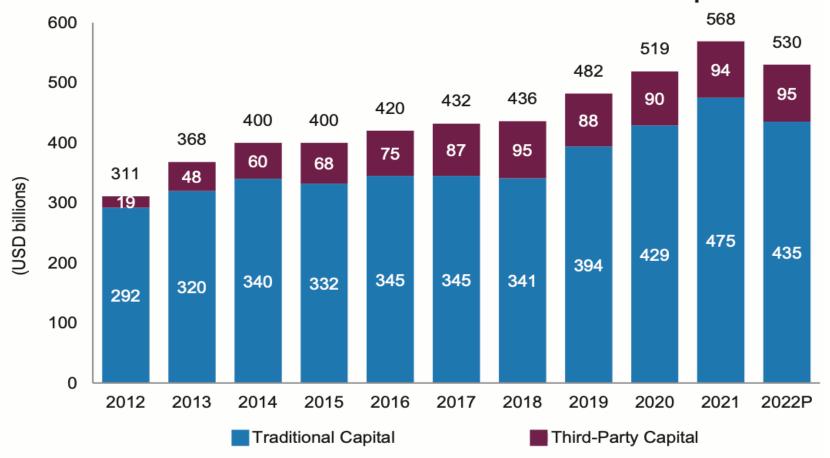
This slide will activate the polling question once the presentation is started.

Do not change or delete text on this slide.

Poll Key= RPVJM Label = Are we in a hard market?

## Reinsurance Capital: Adding it all up

#### Global Reinsurance – Estimated Total Dedicated Reinsurance Capital





P=Projected

Source: AM Best data and research; Guy Carpenter

# The last few years have seen an increase in frequency and severity of natural disasters

#### Global Insured Losses from Natural Disasters (2022 \$ bn)

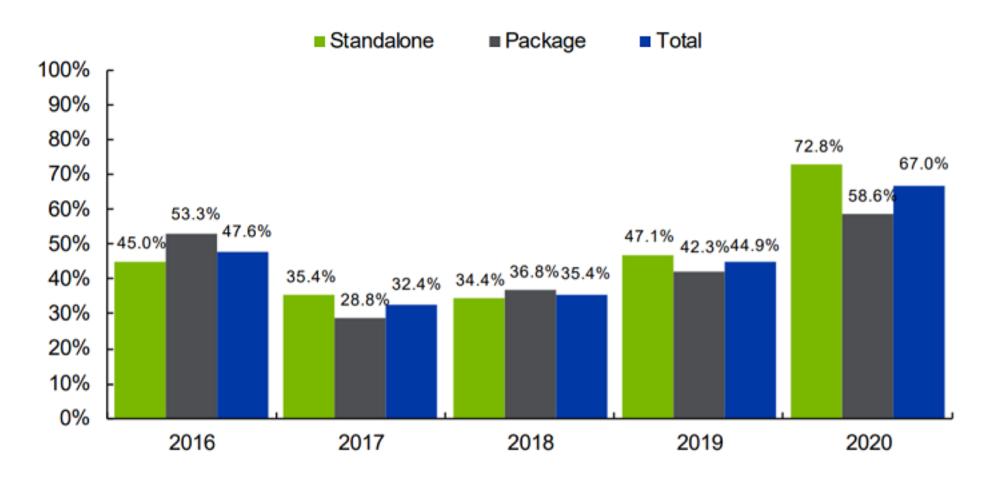




Data: Catastrophe Insight, Aon

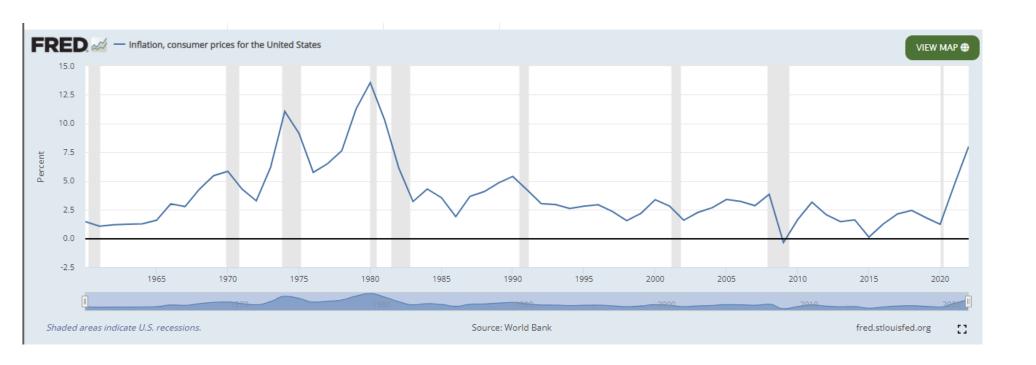
## Cyber activity has been on the rise as well

#### Exhibit 4: US cyber loss ratio | 2016 - 2020



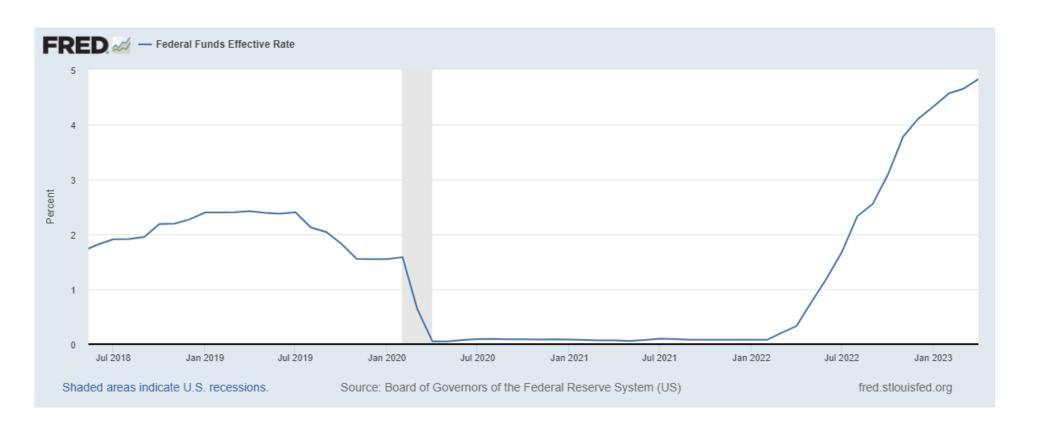


## **US Consumer Prices**





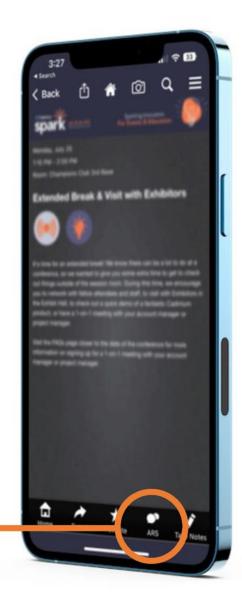
# The Fed raises interest rates to attempt to cool the economy and tame inflation





### Get your devices ready for a poll!

- 1. Locate the session in the mobile app.
- 2. Tap the "p" button on the bottom menu bar of the session to open the poll.
- 3. The poll will launch when polling begins.



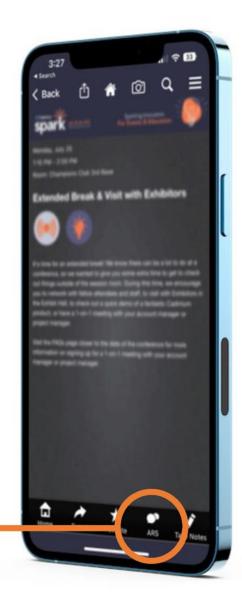
This slide will activate the polling question once the presentation is started.

Do not change or delete text on this slide.

Poll Key= BDHKC Label = Pre-Tax Loss Q

### Get your devices ready for a poll!

- 1. Locate the session in the mobile app.
- 2. Tap the "p" button on the bottom menu bar of the session to open the poll.
- 3. The poll will launch when polling begins.



This slide will activate the polling question once the presentation is started.

Do not change or delete text on this slide.

Poll Key= HYZUX

Label = Capital Rebound

# Historic Decrease in P&C Insurance and Reinsurance Capital

U.S. Industry Events	Est. Pre-Tax Loss <sup>1</sup> (\$Bn)	Subsequent Capital Raised <sup>2</sup> (\$Bn)
2022 – 2023 Inflation, Rising Interest Rates, Currency and Ian	\$415	\$5 <sup>3</sup>
2017 Hurricanes Harvey, Irma and Maria (HIM)	\$69	\$35 <sup>2</sup>
2005 Hurricanes Katrina, Rita and Wilma (KRW)	\$57	\$26
2001 WTC and '01 Reserve Development	\$49	\$27
1992 Hurricane Andrew & '94 Northridge EQ	\$28	\$4

- Current decline in Insurance and Reinsurance capital is multiples higher than after other historic industry events
- Previous events led to significant (re)insurance rate increases and material amounts of capital coming into the (re)insurance market
- There is a once in a generation supply / demand imbalance that is driving broad rate increases and creating the need for additional capital





This represents capital raised in 2020 on the back of material aggregate cat losses in 2017-2019 as well as anticipated (at the time)

3. As of March 22, 2023



### **Unprecedented (Re)Insurance Market Dynamics**

15% Reduction in Insurance and Reinsurance Capital Coupled with Increased Demand for Risk Transfer

	Total P&C Insurance and Reinsurance Capital (\$Bn)	P&C Reinsurance Capital Only (\$Bn)
Total Capital at Year End 2021	\$2,690	\$675
Inflation and related interest rate increases	(\$375)	(\$74)
Currency exchange rate impact	(\$30)	(\$7)
Estimated profit less dividends	+\$10	+\$2
Other(1)	(\$17)	(\$14)
ILS capacity changes	(\$8)	(\$8)
Equity inflows (existing & NewCos)	+\$5	+\$1
Total Change in Capital through Year End 2022 <sup>3</sup>	(\$415)	(\$100)
Total Capital at Q3 2022	\$2,275	\$575
Incremental increase in demand for capacity	Nil	Nil
Total Capital Impact <sup>(2)</sup>	(\$415)	(\$100)
% Change from Year End 2021	(15%)	(15%)

- An estimated \$415Bn of additional capital is required to support P&C Insurance and Reinsurance; this includes reinsurance capital needs of \$100Bn
- Reinsurance capital is at a low not seen since 2014
- These capital impacts occur during the strongest specialty property and casualty insurance and reinsurance markets witnessed since 2002 = multiple years of rate increases, attachment points and terms and conditions, keeping well ahead of increases in loss costs
- More capacity is needed in specialty insurance and reinsurance

#### Global Reinsurance Capital (\$Bn)







Includes: Reduction in capacity from government pools and Florida RAP, and exit of multiline companies exiting reinsurance

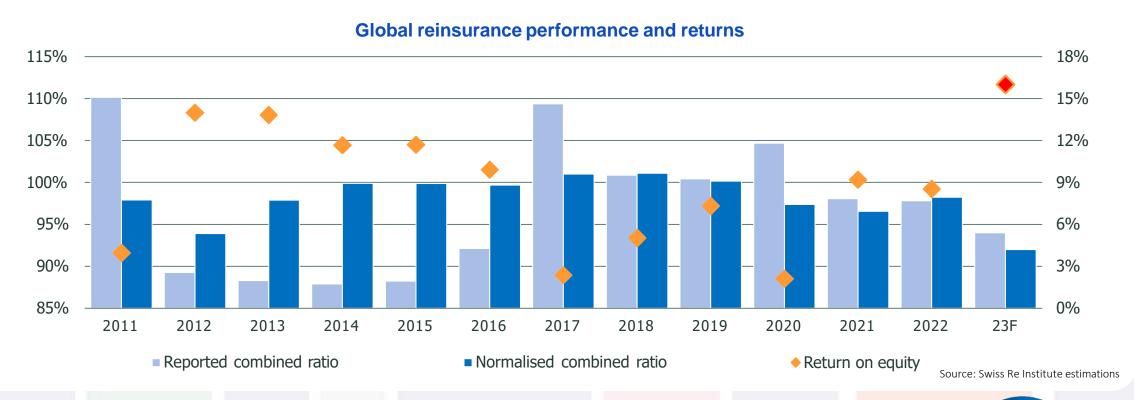


Equals the Total Change in Capital through Year End 2022 plus the additional capital required for the increase in demand due to inflation

Totals may differ due to rounding

### **Drivers of the Current Reinsurance Market Conditions**

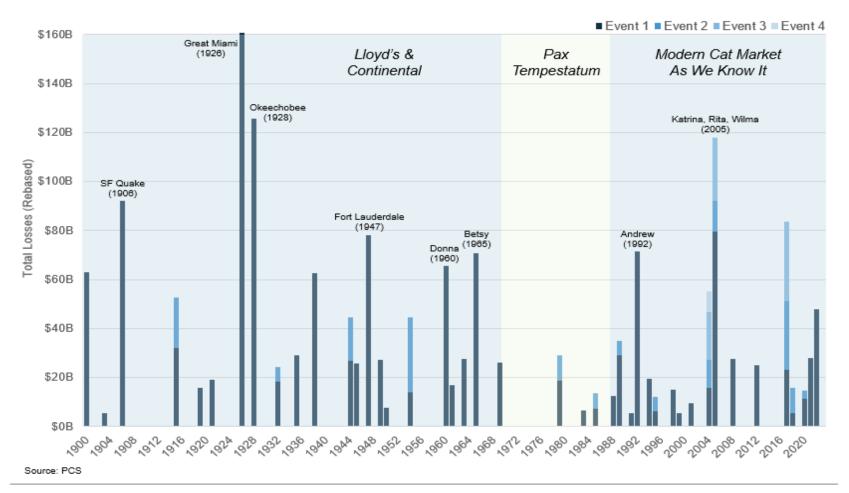
Reinsurer ROE: Influx of fresh capital tempered improvement in pricing and terms & conditions until recent renewal cycle







## Sometimes the Big Story is What Didn't Happen





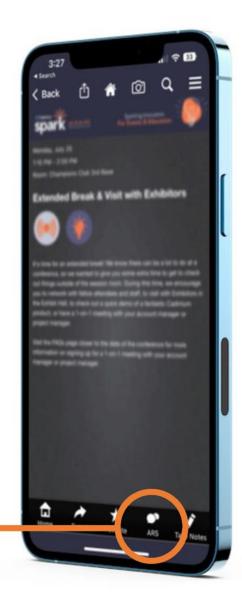
# The 1989 resumption of catastrophes drove capacity to a half trillion

1989 Preexisting Re/Insurance Market Capacity				
Catastrophe Reinsurers	Top 20 Largest ILS Managers	Catastrophe Modelers	Government Cat Facilities	
Renaissance Re	Fermat Capital Management		CALIFORNIA EARTHOUAKE	
PartnerRe	LGT ILS Partners	<b>√</b> ≡ Verisk	AUTHORITY™	
LaSalle Re Tempest Re	Nephila Capital	V_ VCI ISK	CITIZENIC	
MidOcean Re	Renaissance Re Capital Partners		PROPERTY INGURANCE CORPORATION	
GCR	Leadenhall Capital Partners		FLORIDA HURRICANE	
IPC Cat Ltd.	Credit Suisse ILS	RMS	CATASTROPHE FUND	
Odi Etd.	Securis Investment Partners	KI <u>M</u> S	CCRIFSPC	
Arch Capital	Stone Ridge Asset Management		The Caribbean Catastrophe Risk Insurance Facility	
Axis Allied World	Twelve Capital	CoreLogic <sup>*</sup>	( African	
Monteplier Re	Schroder Investment Management	Corclogic	African Risk Capacity	
Endurance Specialty	Swiss Re		Association Française	
Validus	Elementum Advisors	VC	pour la Prévention des Catastrophes	
Ariel	Aeolus Capital Management	KC &co	Naturelles	
Lancashire	AlphaCat Managers	&C_0	AFPCN	
Flagstone Harbor Point	Pillar Capital Management		FLOODRE	
	Hudson Structured Capital Management		LLOOP	
Vantage	Neuberger Berman ILS			
Inigo Mosaic	Amundi US		TWIA	
Conduit	Hiscox ILS		NCJUA NCIUA	



### Get your devices ready for a poll!

- 1. Locate the session in the mobile app.
- 2. Tap the "p" button on the bottom menu bar of the session to open the poll.
- 3. The poll will launch when polling begins.



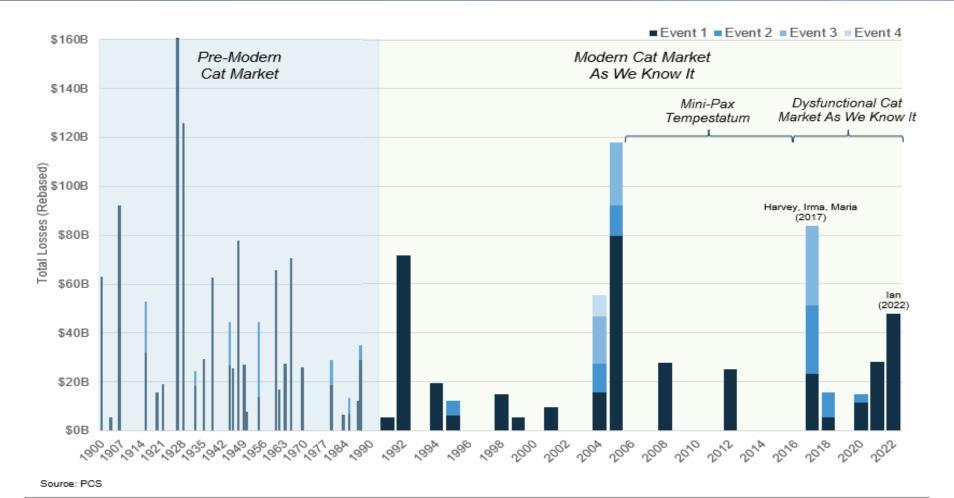
This slide will activate the polling question once the presentation is started.

Do not change or delete text on this slide.

Poll Key= YQIBM

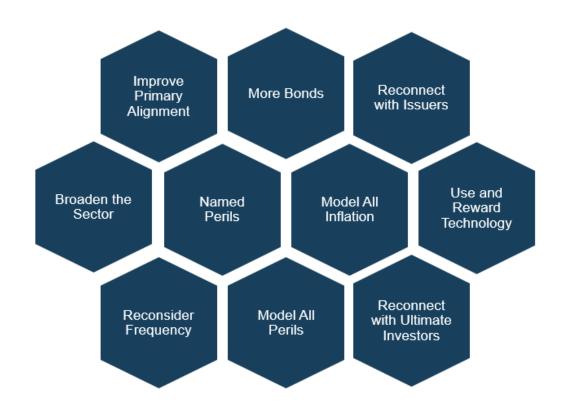
Label = Modern Cat Market

## The Modern Cat Paradigm Worked Poorly for the Past Six Years...and some Soft Market Habits Didn't Help





### The Top 10 List ....

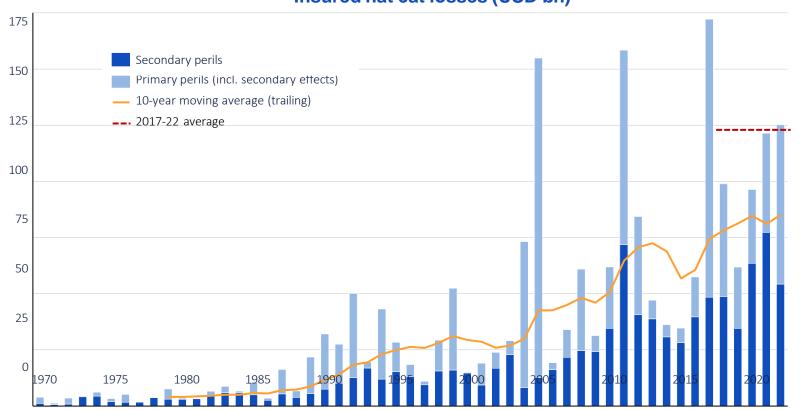






## Drivers of the Current Reinsurance Market Conditions Cat Loss Trend: Elevated catastrophe insured losses in the recent years





5 -7%

p.a. growth over last 30 years

### **USD 110 bn**

of insured losses p.a. over 2017-2022

~50%

share of secondary perils in last 30 years

Source: Swiss Re Institute, inflation-adjusted

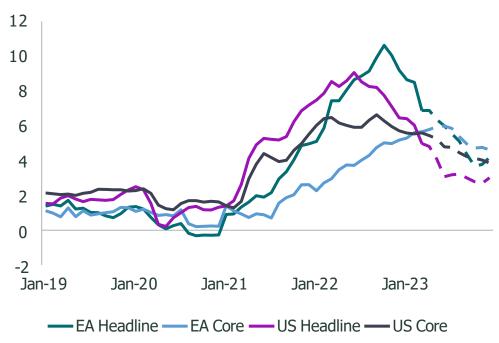


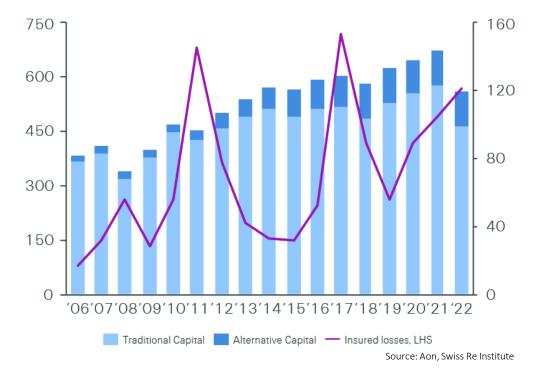


### **Drivers of the Current Reinsurance Market Conditions**

Supply and Demand Imbalance: Spike in inflation drove demand for additional capacity while reinsurance capital eroded

#### Inflationary environment & limited capital inflows create an unprecedented context



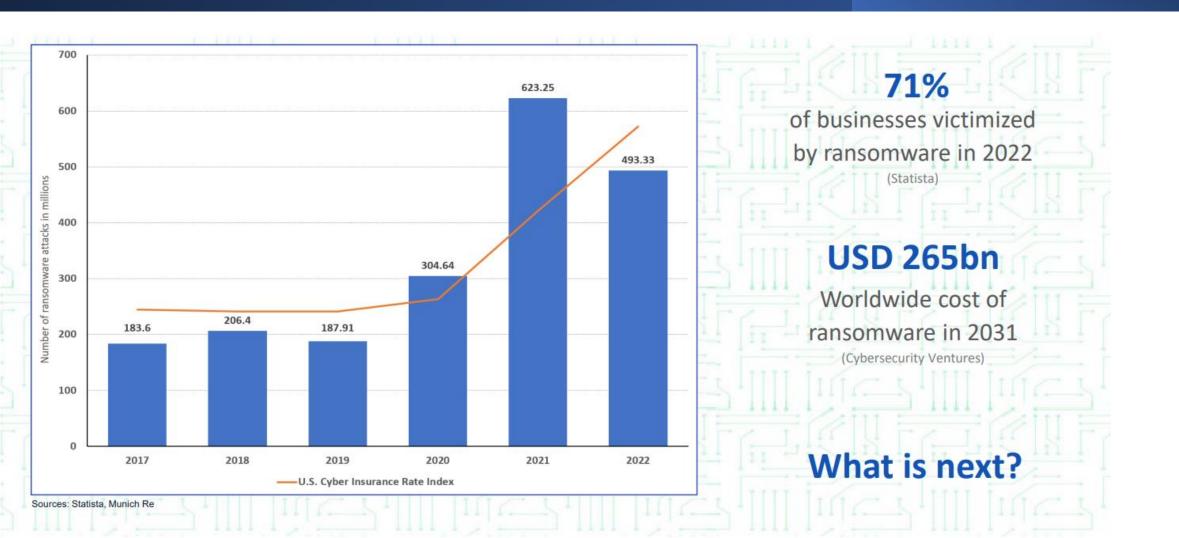




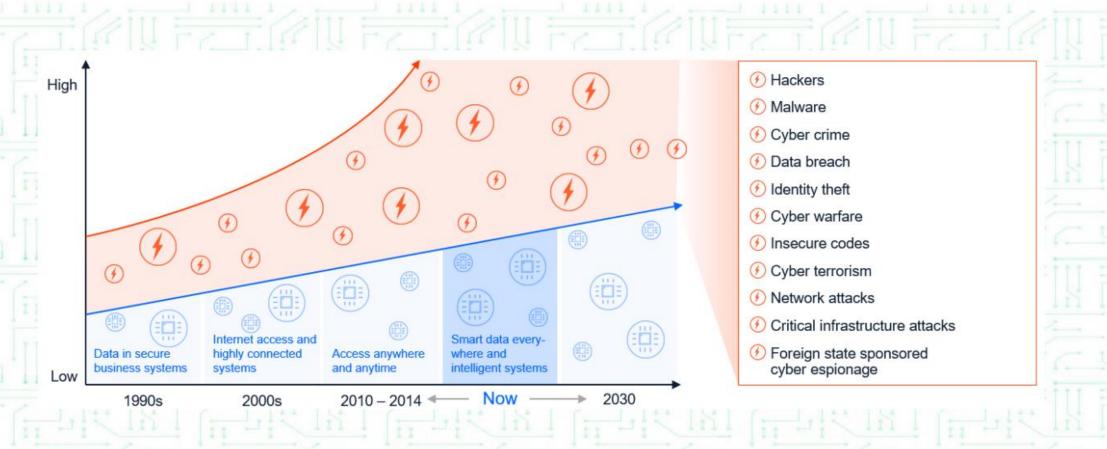


#### **Drivers of the Current Reinsurance Market Conditions**

#### Ransomware Loss Trend: Increased losses since late 2018



# Drivers of the Current Reinsurance Market Conditions Cyber risks constitute one of the greatest threats we face



... and the cyber (re)insurance market has been undergoing a clear evolution in last few years

# Drivers of the Current Reinsurance Market Conditions Cyber Insurance - Key Challenges Remain

