Plenum
Insurance Linked Capital

Plenum Insurance Capital Fund

How to manage high yielding insurance risks more efficiently

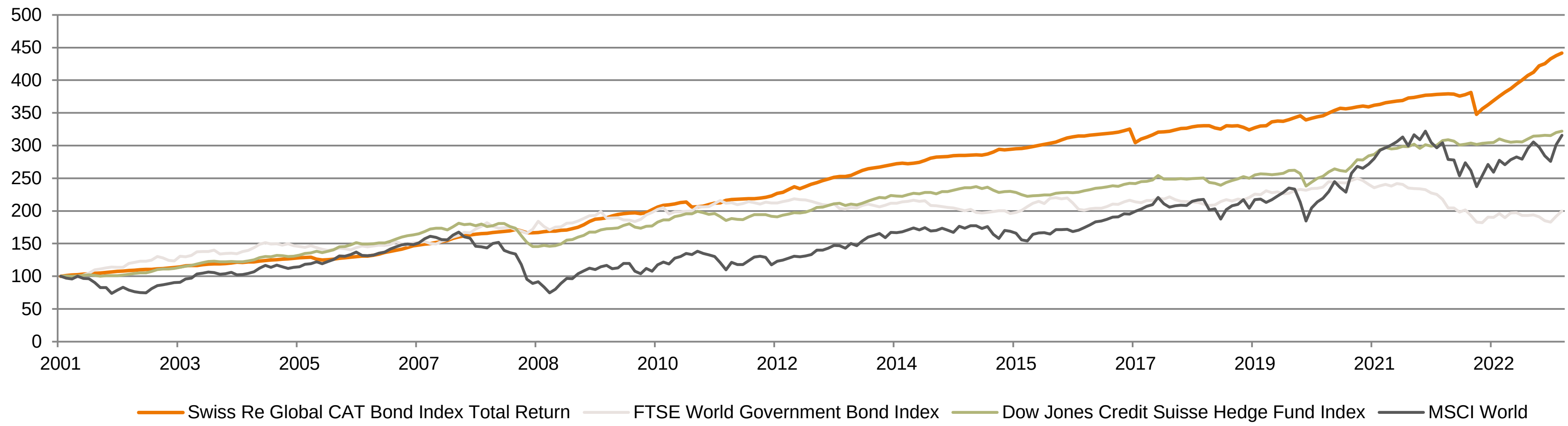
«Tail-to-Tier» approach reduces concentration risks and exploits risk premia more efficiently

Blending Insurance Bonds
into a CAT Bond portfolio

Plenum
Insurance Linked Capital

CAT Bond Market Performance

CAT bonds delivering stable and uncorrelated returns



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
CAT Bonds	8.8%	7.1%	6.6%	1.6%	12.0%	15.4%	2.4%	13.4%	11.1%	3.7%	10.3%	10.8%	6.0%	4.2%	6.6%	0.5%	2.8%	4.4%	5.8%	4.9%	-2.2%	19.7%
Government Bonds	19.5%	14.9%	10.3%	-6.9%	6.1%	10.9%	10.9%	2.6%	5.2%	6.4%	1.6%	-4.0%	-0.5%	-3.6%	1.6%	7.5%	-0.8%	5.9%	10.1%	-7.0%	-18.3%	5.2%
Hedge Funds	3.0%	15.4%	9.6%	7.6%	13.9%	12.6%	-19.1%	18.6%	10.9%	-2.5%	7.7%	9.7%	4.1%	-0.7%	1.2%	7.1%	-3.2%	9.3%	6.4%	8.2%	1.1%	5.8%
Equities	-21.1%	30.8%	12.8%	7.6%	18.0%	7.1%	-42.1%	27.0%	9.6%	-7.6%	13.2%	24.1%	2.9%	-2.7%	5.3%	20.1%	-10.4%	25.2%	14.1%	20.1%	-19.5%	21.8%

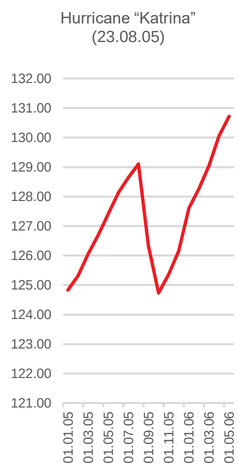
- CAT bonds delivering consistently positive performance despite more natural disasters in recent years
- CAT bond yields largely uncorrelated to other asset classes due to lack of causality
- Quick amortization of losses due to premium spread widening after the event

Source: Bloomberg.

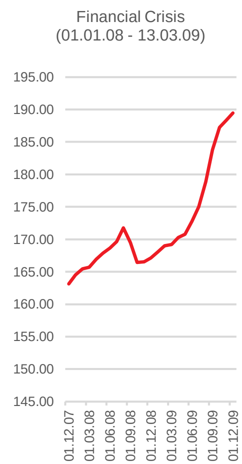
Plenum
Insurance Linked Capital

Capital Market and NATCAT Stress in the CAT Bond Market

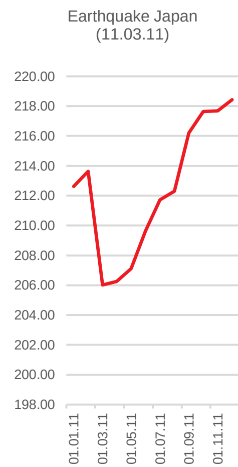
Limited Draw-Downs and short Payback Periods since 2001



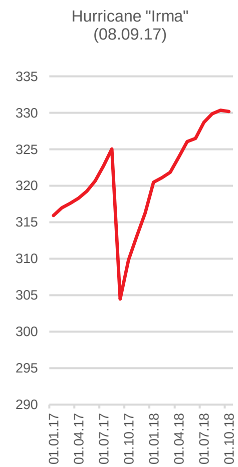
Max. draw down: -3.38%
Amortization: 8 months



Max. draw down: -3.12%
Amortization: 10 months

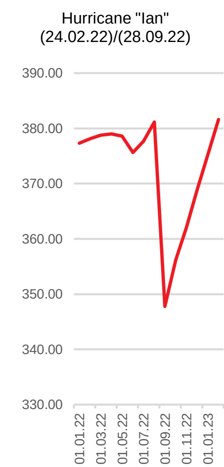


Max. draw down: -3.56%
Amortization: 7 months



Max. draw down: -6.33%
Amortization: 8 months

Max. draw down: -1.81%
Amortization: 4 months



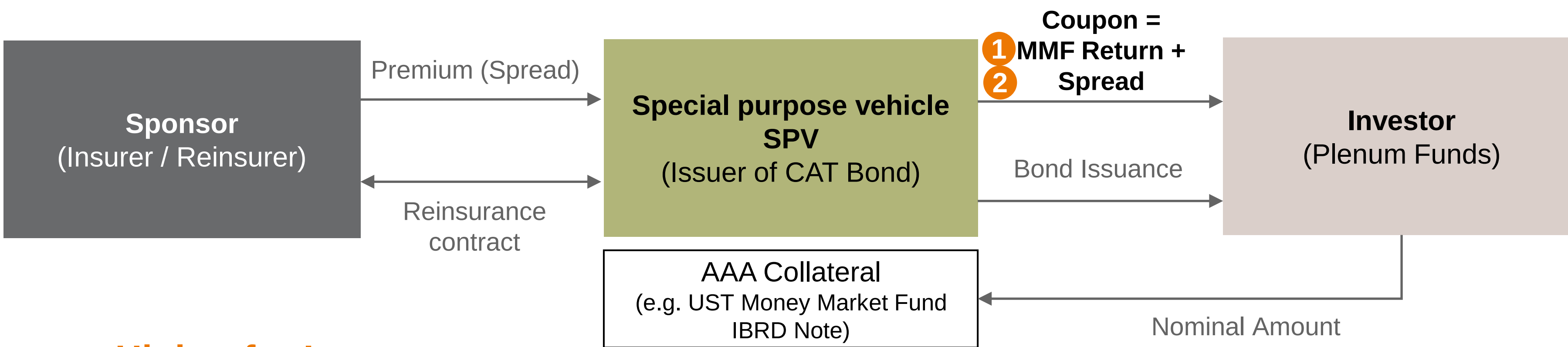
Max. draw down: -8.75%
Amortization: 6 months

Source: Bloomberg/Swiss Re Cat Bond Index

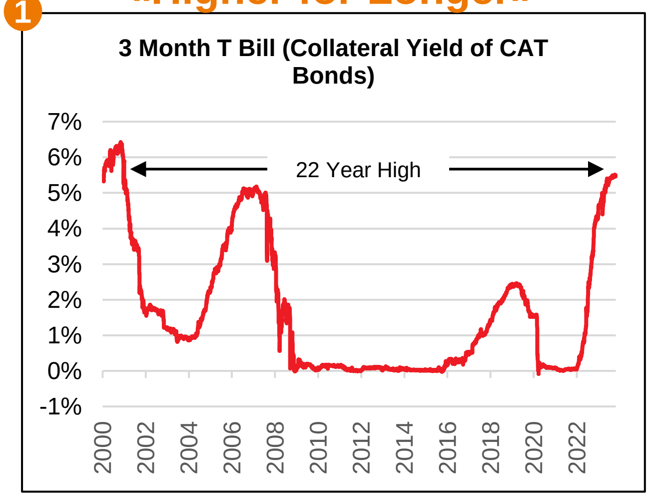
Plenum
Insurance Linked Capital

CAT Bond Structure

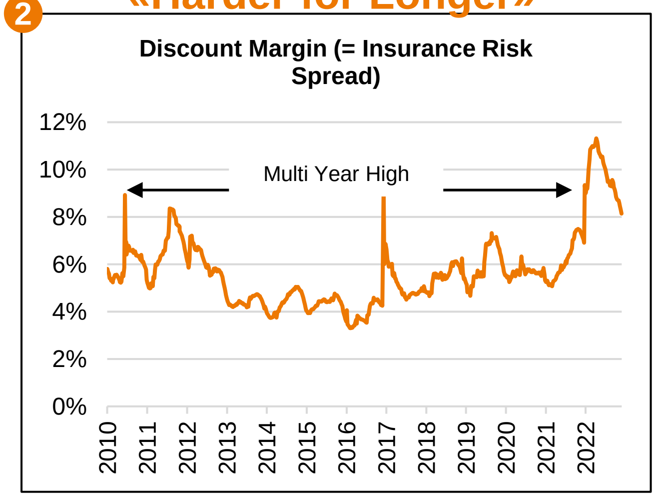
Substantial return on the collateral increases absolute return



1 «Higher for Longer»



2 «Harder for Longer»

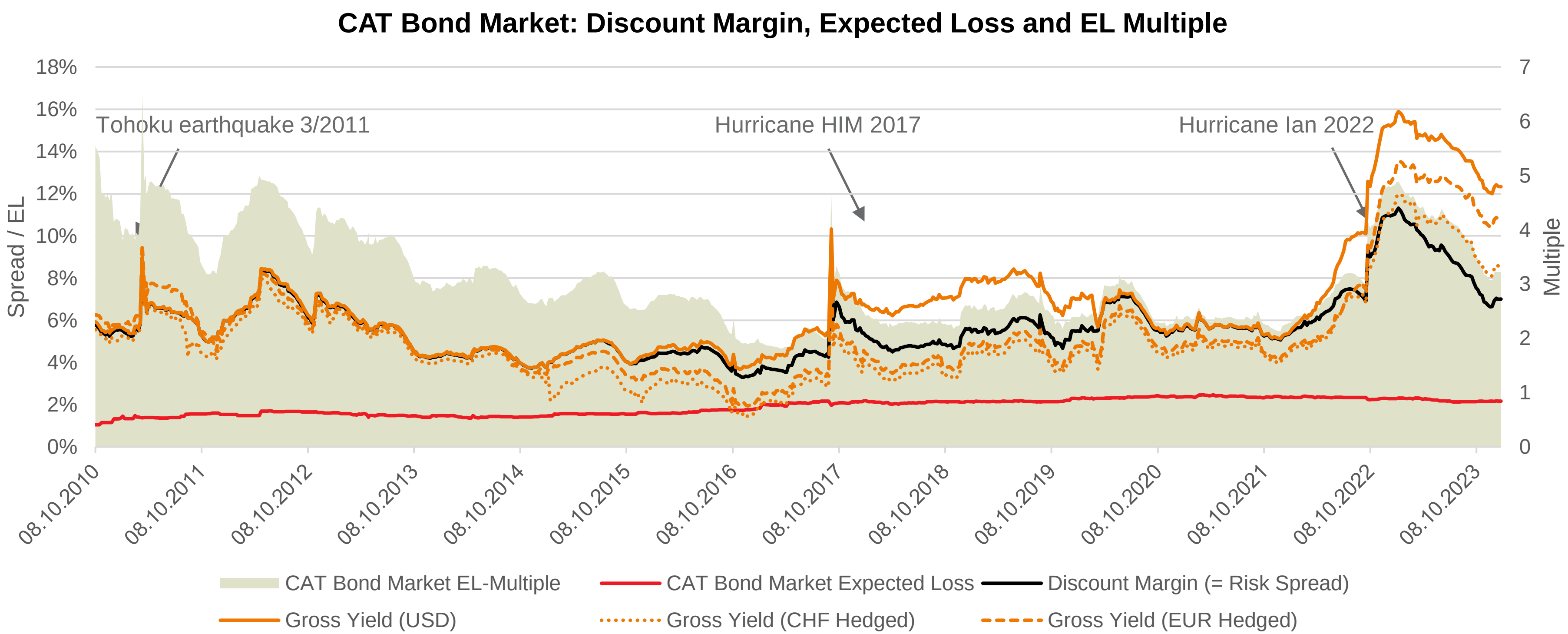


Data Source: Bloomberg, Plenum Calculation

Plenum Insurance Linked Capital

CAT Bond Market Yield

Risk premiums and money market yields at record levels



- Risk premiums and collateral yields at historically high level, similar to aftermath of Hurricane Katrina (2005)
- Expecting continued high premiums on the CAT bond market: "Higher for Longer"

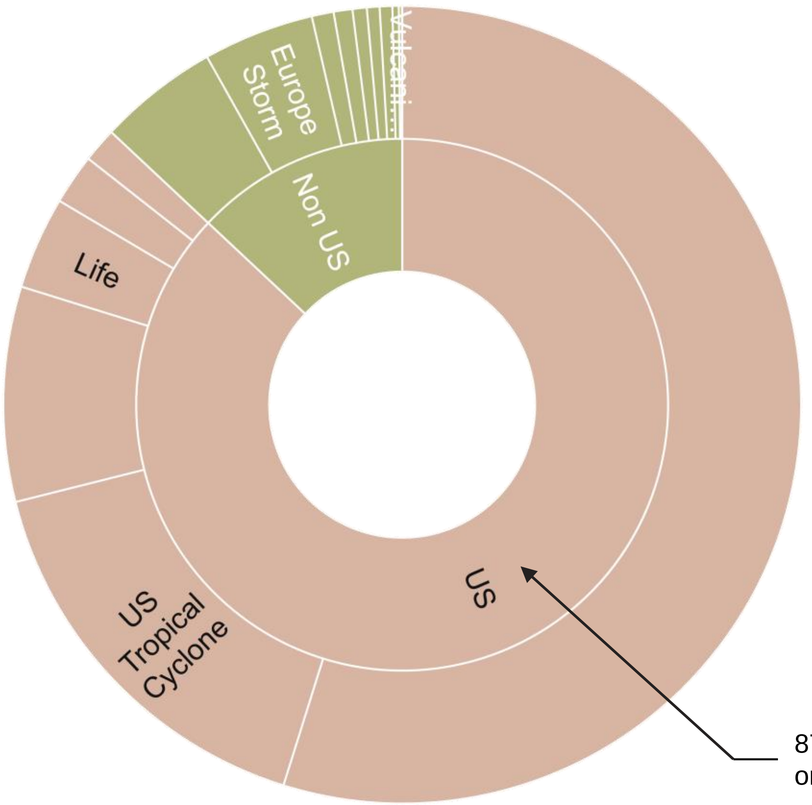
Source: Bloomberg.

Plenum
Insurance Linked Capital

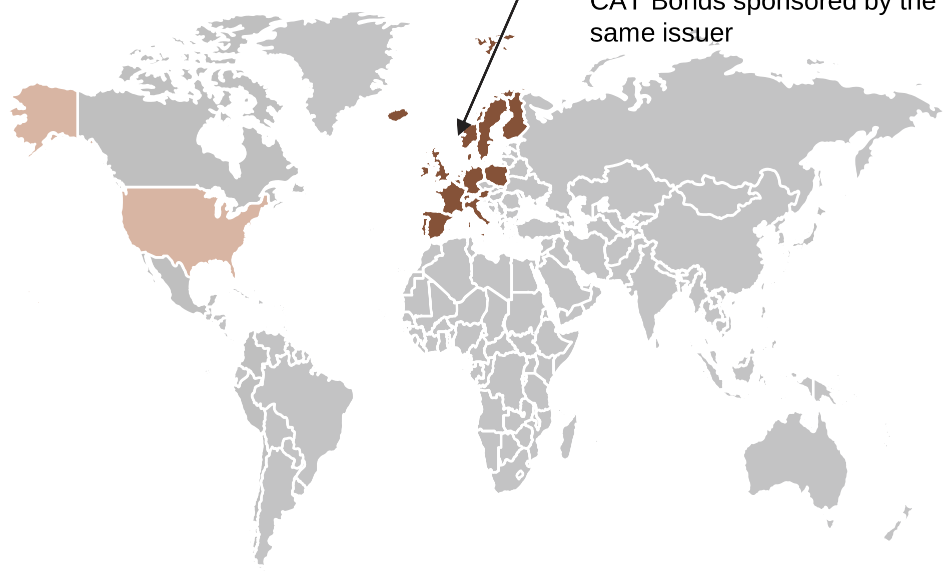
What do we mean by «Tail-to-Tier»?

Geographic diversification: US-centric CAT Bond market combined with European Insurance Bonds

CAT Bond Market: Geographic spread of risks



87% of all risks transferred to the CAT Bond market originate in the US



Bonds issued by European Insurers are complementary to CAT Bonds and tend to be higher yielding compared to CAT Bonds sponsored by the same issuer

Source: CAT Bond Prospectuses

Plenum
Insurance Linked Capital

Example: Axa restricted Tier 1

Launch date: 9 January 2024


AXASA 6 3/8 PERP €↓103.313 +.009 103.043 / 103.583 .000 / .000
At 14:14 --x-- Source BGN
AXASA 6 3/8 PERP Corp | Actions ▾ | Settings ▾ | Page 1/13 Security Descript
94) Notes 95) Buy 96) Sell
25) Bond Description | 26) Issuer Description

Pages
11) Bond Info
12) Addtl Info
13) Reg/Tax
14) Covenants
15) Guarantors
16) Bond Ratings
17) Identifiers
18) Exchanges
19) Inv Parties
20) Fees, Restrict
21) Schedules
22) Coupons
23) Impact
Quick Links
32) ALLQ Pricing
33) QRD Qt Recap
34) TDH Trade Hist
35) CACS Corp Action
36) CF Filings
37) CN Sec News
38) HDS Holders
66) Send Bond

Issuer Information
Name AXA SA
Industry Life (BCLASS)

Security Information
Mkt Iss EURO MTN Hybrid
Ctry/Reg FR Currency EUR
Rank Jr Subordinated Series EMTN
Coupon 6.375000 Type Variable
Cpn Freq S/A
Day Cnt ACT/ACT Iss Price 100.0000
Maturity PERPETUAL Reoffer 100
PERPETUAL CALL 07/16/33@100.00
Iss Sprd +384.10bp vs MIDSWAPS
Calc Type (1010)FIX-TO-FLOAT BONDS
Pricing Date 01/09/2024
Interest Accrual Date 01/16/2024
1st Settle Date 01/16/2024
1st Coupon Date 07/16/2024

Identifiers
FIGI BBG01KXMP9V8
ISIN XS2737652474
ID Number ZF2097722

Bond Ratings
Moody's Baa1
S&P BBB+
Composite BBB+

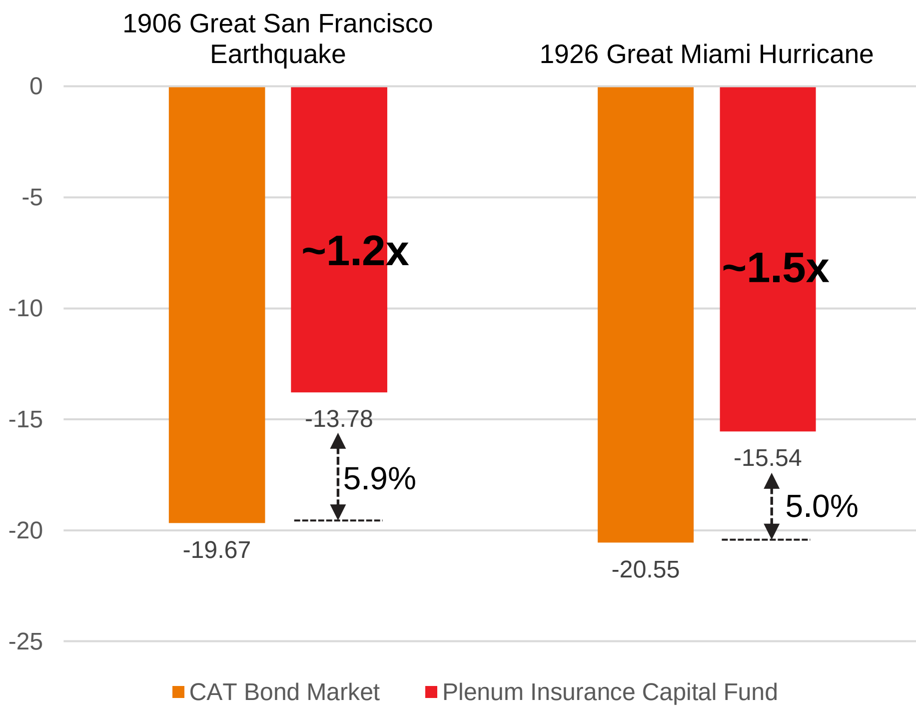
Issuance & Trading
Amt Issued/Outstanding
EUR 1,500,000.00 (M) /
EUR 1,500,000.00 (M)
Min Piece/Increment
100,000.00/ 1,000.00
Par Amount 1,000.00
Book Runner JOINT LEADS
Exchange MUNICH

Source: CAT Bond Prospectuses

What do we mean by «Tail-to-Tier»?

Reducing CAT Bond concentration risk without compromising the no-loss-return

Significant Tail-Risk reduction… expressed by a low Recovery Factor (Loss / Running Yield)



Expected payback time is around 1.5 years for the largest events

Portfolio Key Figures

Net Asset Value	USD 438.8 Mio.
Investment Degree	97.99%
Number of Positions	159
10 Largest Positions	16.91%
Average Position Size	0.62%
Portfolio Yield (USD)	11.26%
Portfolio Yield (EUR)	9.78%
Portfolio Yield (CHF)	7.43%
Portfolio Yield (GBP)	11.05%

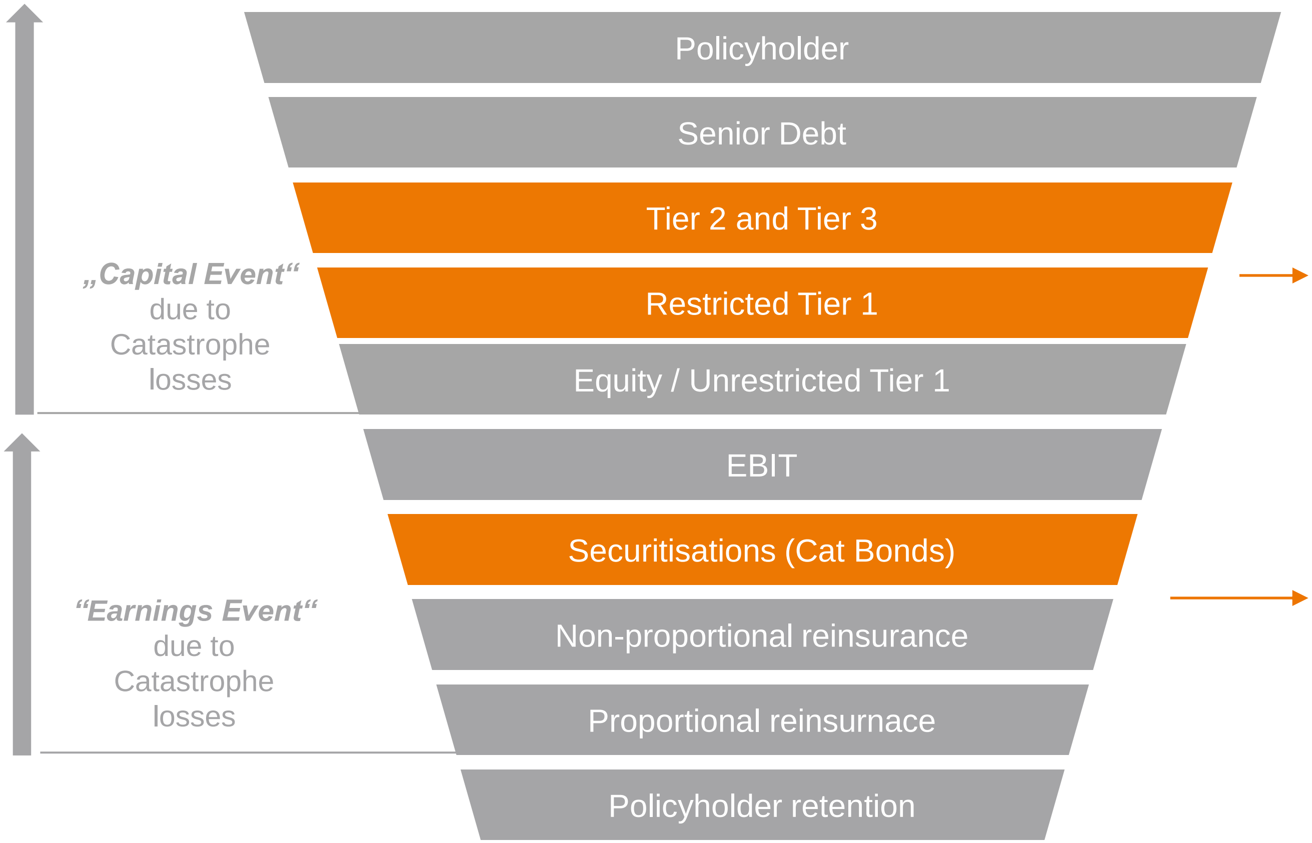
Source: RMS Miu as per June 30 2023 & Plenum Investments..

Capital goes Re®

Plenum
Insurance Linked Capital

Combination of CAT Bonds and Insurance Bonds

Two building blocks of the same capital structure



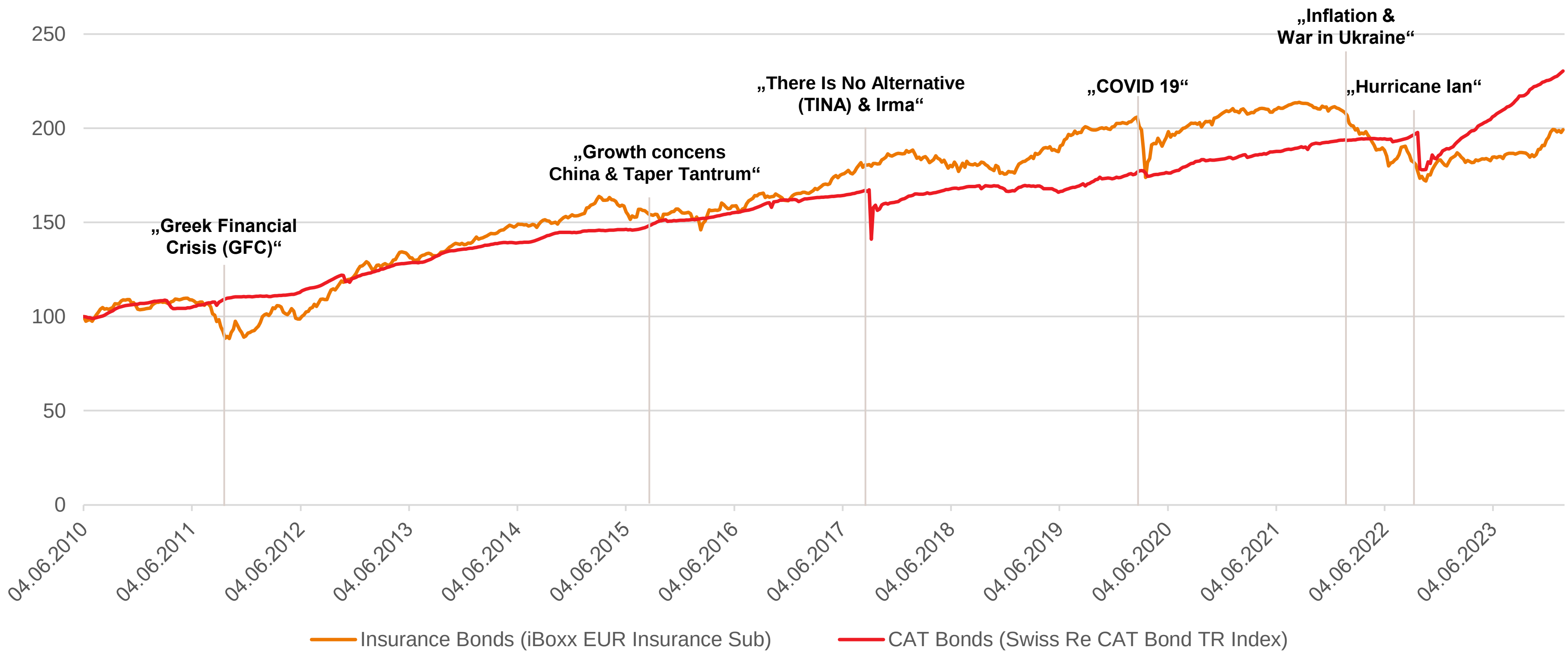
Insurance Bonds
- Issuer credit counterparty risk
- Interest rate risk
- Price discovery follows the logic of credit markets

CAT Bonds
- Access to pure insurance risk
- No credit risk to sponsor/cedent
- Very low duration / Floating Rate Structure
- Price discovery follows the logic of the reinsurance market

Plenum
Insurance Linked Capital

Performance of CAT Bonds and Insurance Bonds

Full diversification potential with comparable returns



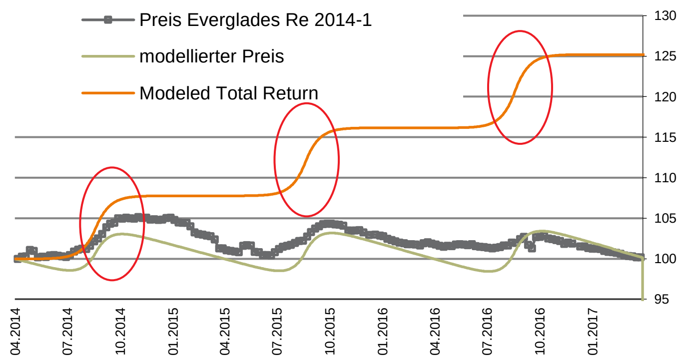
- Average annualized return: 5.2% for CAT Bonds (in USD), 3.5% for Insurance Bonds (in EUR)
- Correlation between both asset classes: 0.063
- P&L dispersion between both asset classes on an annual basis demonstrating the excellent diversification potential

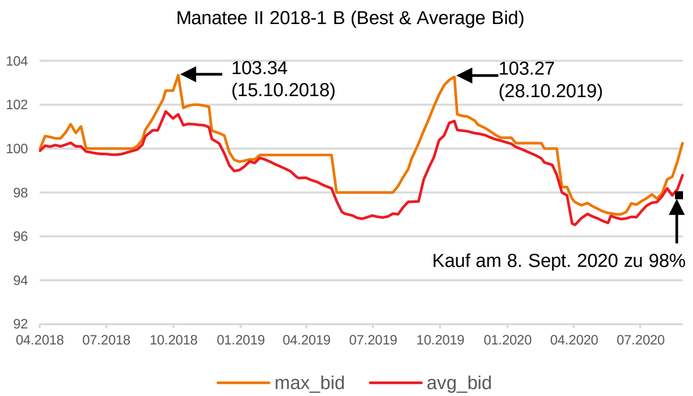
Source: Bloomberg.

Plenum
Insurance Linked Capital

How are CAT- and Insurance Bonds ideally combined?

Additional factors taken into consideration





CAT Bond seasonality

- Fluctuation of cash prices of US hurricane bonds depending on the seasonality of their underlying risk (green).
- Increasing cash price during the season and decreasing after the season
- Entire performance typically generated during the season; usually no performance generated outside of the season (orange)
- An additional performance compared to a pure CAT Bond Portfolio can be achieved if US Wind positions are divested post season at a profit and if the resulting proceeds are re-invested in attractively yielding investments

Case Study: Benefitting from a deviation of the modelled price

- Manatee II 2018-1 B covers amost exclusively hurricanes in Florida
- The investment was made at the peak of the hurricane season. I.e. half of the hurricane season was already over. From that perspective, the purchase price of 98% appreared attractive. Shortly after the investment was made, the position was marked at 101%

Source: Broker Prices.

Plenum
Insurance Linked Capital

Active Management of the Hurricane Season

Concentrated CAT Bond Portfolios have a Significant Seasonality

Total Return of Swiss Re CAT Bond Index

	Year	June - October	October - June
	2023	8.5%	
Hurricane Ian ➡	2022	-8.3%	15.0%
	2021	2.4%	1.1%
	2020	3.6%	2.6%
	2019	4.8%	1.4%
	2018	1.1%	-1.9%
Hurricane Irma ➡	2017	-2.6%	4.7%
	2016	3.9%	1.9%
	2015	3.5%	2.4%
	2014	3.9%	1.2%
	2013	4.9%	3.2%
	2012	8.4%	5.3%
	2011	5.2%	2.3%
	2010	5.6%	-0.8%
	2009	9.9%	5.5%
	2008	-1.7%	3.3%
	2007	6.6%	5.1%
	2006	5.5%	9.0%
Hurricane Katrina ➡	2005	-2.4%	5.1%
	2004	2.7%	3.8%
	2003	3.6%	3.7%
	2002	3.1%	3.8%
Av. All Seasons (2002-2021)		3.6%	3.1%
Average Mild Seasons		4.4%	2.8%
Mild Seasons annualized		11.3%	4.7%

Quelle: Bloomberg.

Balanced Distribution of Returns

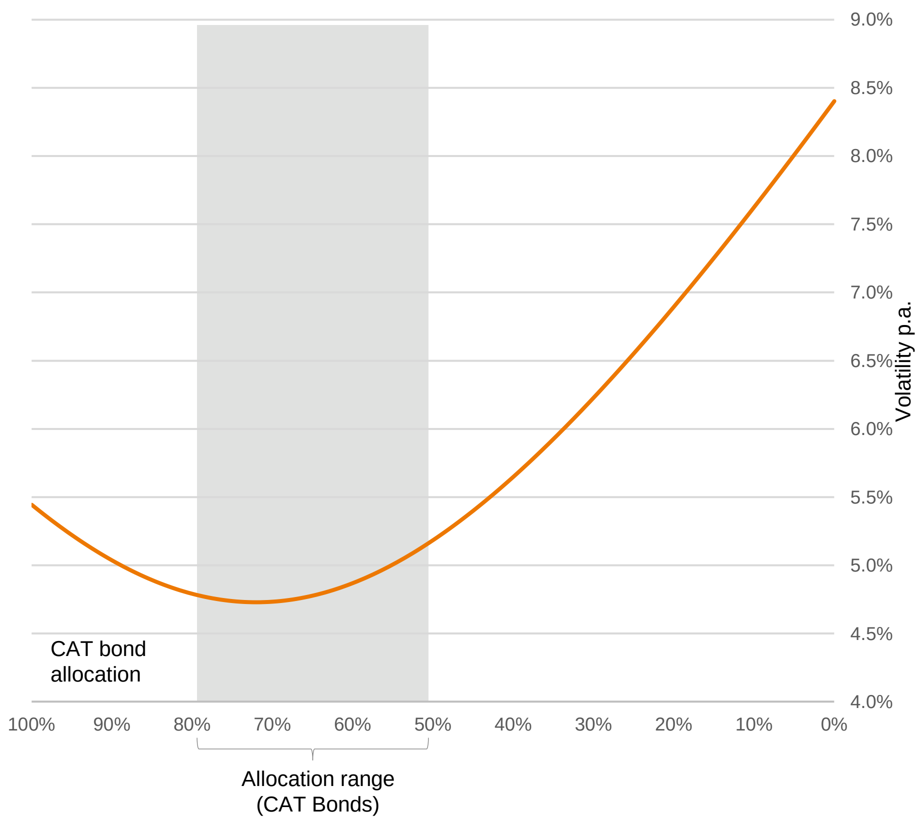
- Swiss Re CAT Bond Index: 60% of the total annual return is achieved in 40% of the calendar year
- The annualized return during the season is twice as high as the annualized return outside of the season

Source: Bloomberg.

How are CAT- and Insurance Bonds ideally combined?

Optimal allocation range

Annualized volatility of a CAT Bond Portfolio with changing allocation to Insurance Bonds



Source: Bloomberg

Portfolio volatility minimization with a CAT Bond allocation of 50% - 80%

- Historic volatilities and correlations leading to an optimal allocation of 20-50% Insurance Bonds within a Cat Bond-portfolio

Plenum
Insurance Linked Capital

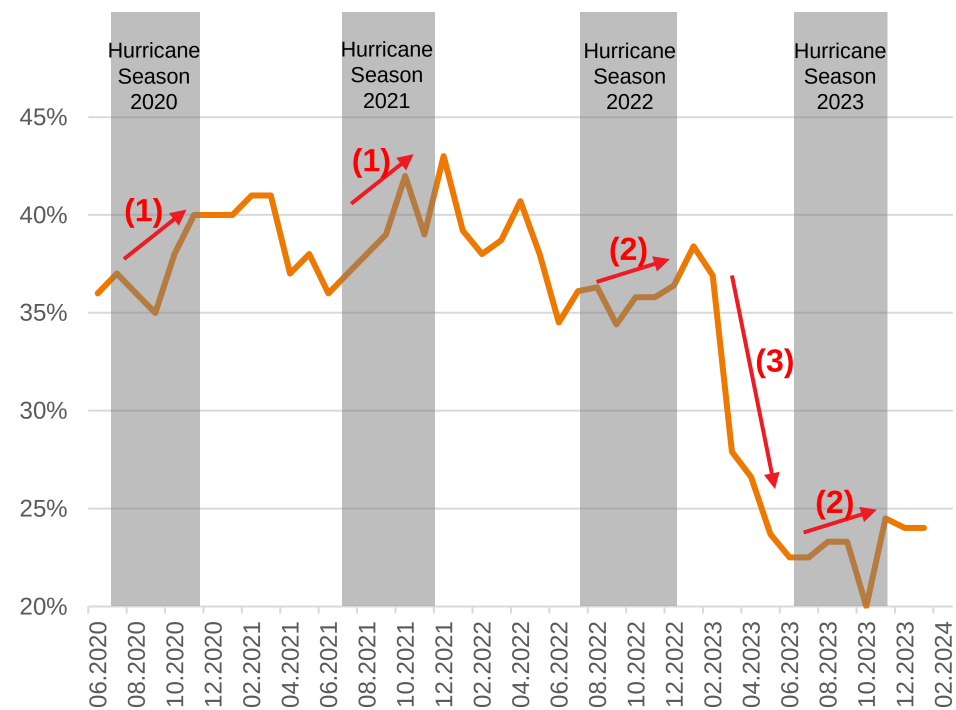
Relative Value Framework

Allokation of CAT Bonds and Insurance Bonds (Top Down)

Scoring Framework

	Faktoren	CAT Bonds	Insurance Bonds
Funda-mentals	Return Potential	0 1 2 **3** 4 5	0 1 2 3 4 **5**
	Reinsurance Cycle	0 1 2 3 **4** 5	
	Credit Fundamentals		0 1 2 3 **4** 5
Market Factors	Current Value	0 1 2 **3** 4 5	0 1 2 3 4 **5**
	Technicals	0 1 2 **3** 4 5	0 1 2 3 4 **5**
	Spread Volatility, Interest Sensitivity, Correlation	**5**	**0**
Seasonal Benefit	Seasonality	0 1 2 **3** 4 5	0 1 2 **3** 4 5
		50% ↔ 80%	20% ↔ 50%

Deriving the Allocation of Insurance Bonds



(1) Significant increase in Insurance Bond allocation after benign season

(2) Small increase in Insurance Bond allocation after active hurricane season

(3) Drop in overall Insurance Bond allocation due to rise in collateral yield

Source: Plenum Investments.

Plenum
Insurance Linked Capital

Summary

How to manage high yielding insurance risks more efficiently

- CAT Bond-based fixed income fund with dynamic allocation to Insurance Bonds
- **CAT Bond tail-risk** reduced by 20-50% by means of allocation to Insurance Bonds
- Dynamic allocation to CAT Bonds and Insurance Bonds depending on their respective attractiveness. Allocation determined by a proprietary **Relative Value Framework**
- **Fund capacity**: USD 1bn (+/1 100m)
- **Reasons** for combining CAT Bonds/Insurance Bonds
  - **Reduction of CAT-Tail Risk**
  - **Active management of saisonality**
  - **Active management of reinsurance cycle**
  - **Higher flexibility in portfolio construction i.e. increased level of selectivity**

Plenum Insurance Linked Capital

Track Record

How to manage high yielding insurance risks more efficiently

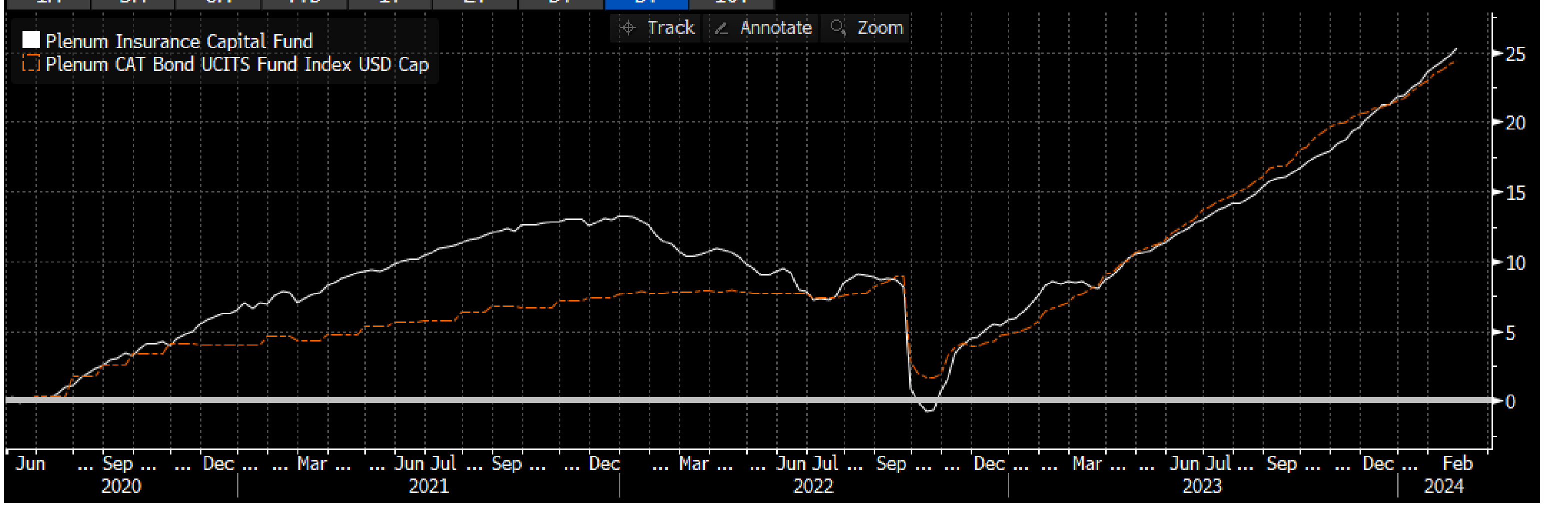
PLEICSU LE $ NAV 125.63 --
On 01 Mar

PLEICSU LE Equity | Settings | Comparative Returns

Range 05/29/2020 - 02/23/2024 Period Daily No. of Period 1365 Day(s) Table

	Security	Currency	Price Change	Total Return	Difference	Annual Eq
1)	PLEICSU LE Equity	USD	25.27%	25.27%	.90%	6.21%
2)	PLCBFUC Index	USD	24.37%	24.37%	--	6.01%
3)						
4)						
5)						
6)						

1M 3M 6M YTD 1Y 2Y 3Y 5Y 10Y

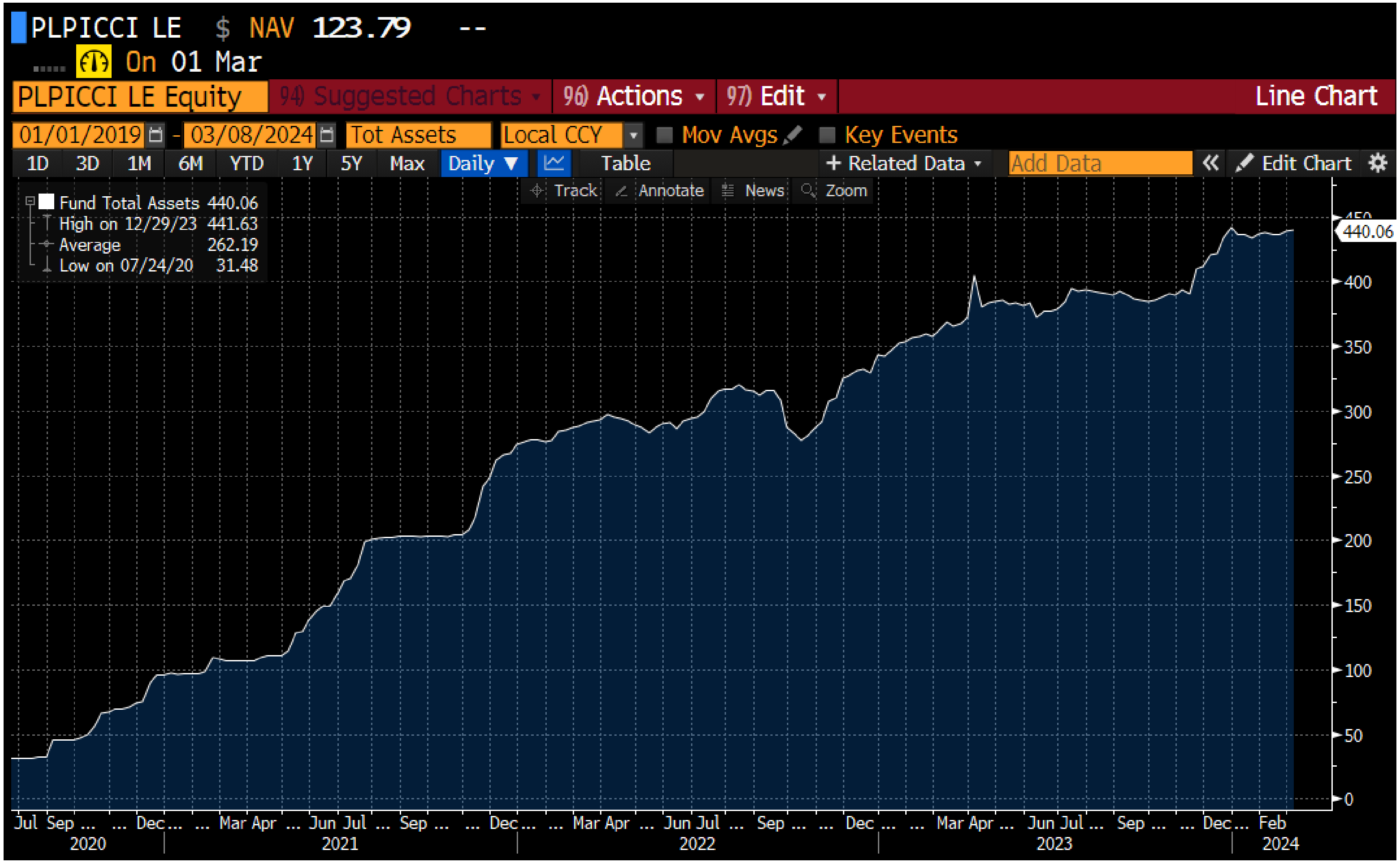


Source: Bloomberg.

Plenum
Insurance Linked Capital

Fund Size

Disciplined growth as key to success



Source: Bloomberg.

Plenum Investments Ltd.
Company and Product Update

Company Update

- 1bn AUM reached during 2023
- Hiring of two senior sales (Elia Di Nardo, Christoph Zitt & Markus Moser) over the last 15 months

Products

- Plenum Life Settlement Fund: Selective portfolio of US life insurance policies / mark-to-market valuation / Max 800m
- Plenum European Insurance Bond Fund: Portfolio of subordinated insurance bonds / daily liquidity / Max 1bn
- Plenum Insurance Capital Fund: CAT Bonds subordinated insurance bonds / dynamic combination / Max. 1bn
- Plenum CAT Bond Fund: Globally diversified CAT bond portfolio / conservative positioning / Max 800m
- Plenum CAT Bond Dynamic Fund: Globally diversified CAT bond portfolio / dynamic positioning / Max 400m

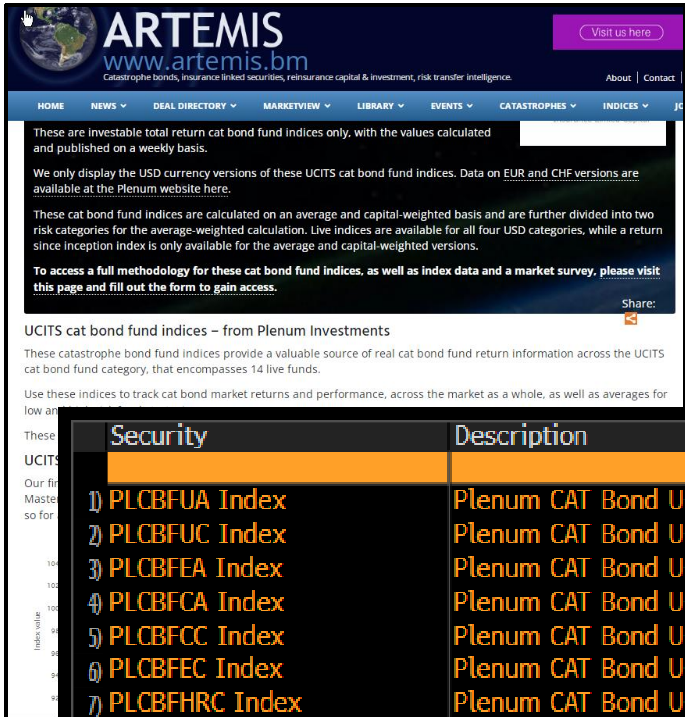
What sets us apart:

> Independent, partnership led and more than 80% owned by management
> Capacity consciousness: All funds have capacity limits
> Asset Class Focus: CAT Bonds, Insurance Bonds and US Life Settlements
> FNG Label with one star for two funds

Plenum
Insurance Linked Capital

Latest Plenum Investments Research

Established Benchmarks, CAT Bond UCITS Funds Market Study



ARTEMIS
www.artemis.bm
Catastrophe bonds, insurance linked securities, reinsurance capital & investment, risk transfer intelligence.

Visit us here | About | Contact

HOME | NEWS | DEAL DIRECTORY | MARKETVIEW | LIBRARY | EVENTS | CATASTROPHES | INDICES

These are investable total return cat bond fund indices only, with the values calculated and published on a weekly basis.

We only display the USD currency versions of these UCITS cat bond fund indices. Data on EUR and CHF versions are available at the Plenum website here.

These cat bond fund indices are calculated on an average and capital-weighted basis and are further divided into two risk categories for the average-weighted calculation. Live indices are available for all four USD categories, while a return since inception index is only available for the average and capital-weighted versions.

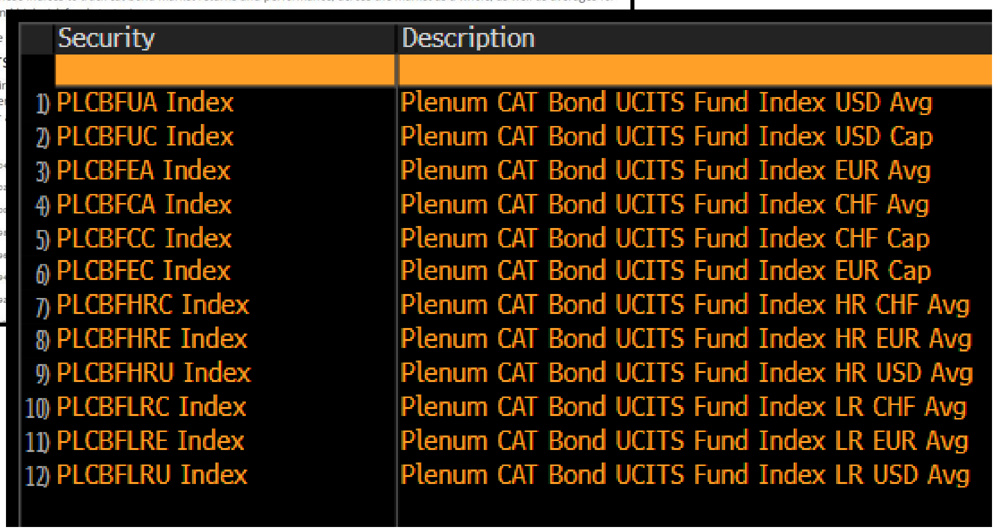
To access a full methodology for these cat bond fund indices, as well as index data and a market survey, please visit this page and fill out the form to gain access.

Share:

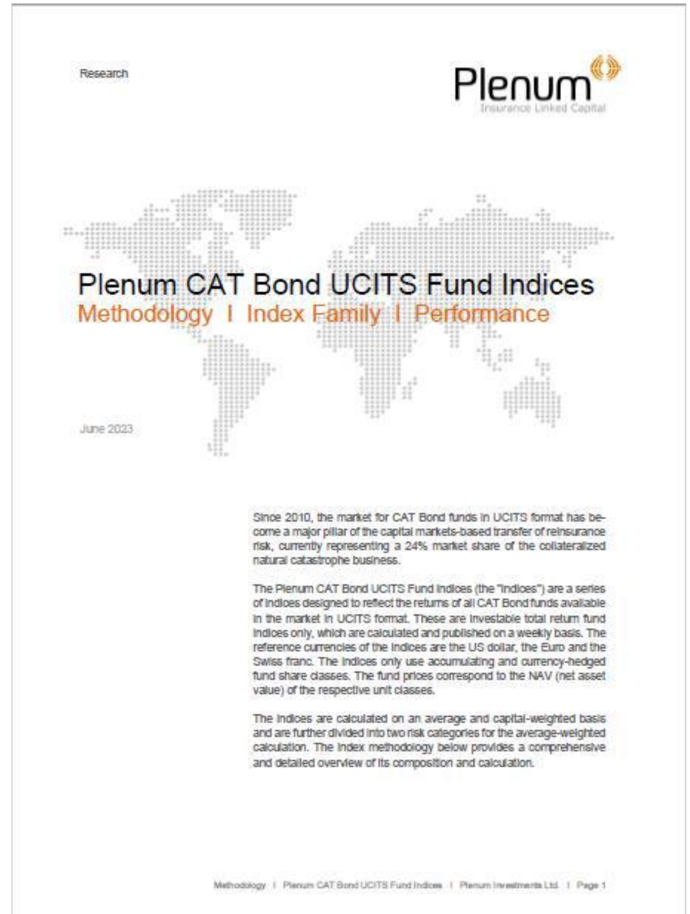
UCITS cat bond fund indices – from Plenum Investments

These catastrophe bond fund indices provide a valuable source of real cat bond fund return information across the UCITS cat bond fund category, that encompasses 14 live funds.

Use these indices to track cat bond market returns and performance, across the market as a whole, as well as averages for



	Security	Description
1)	PLCBFUA Index	Plenum CAT Bond UCITS Fund Index USD Avg
2)	PLCBFUC Index	Plenum CAT Bond UCITS Fund Index USD Cap
3)	PLCBFEA Index	Plenum CAT Bond UCITS Fund Index EUR Avg
4)	PLCBFCA Index	Plenum CAT Bond UCITS Fund Index CHF Avg
5)	PLCBFCC Index	Plenum CAT Bond UCITS Fund Index CHF Cap
6)	PLCBFEC Index	Plenum CAT Bond UCITS Fund Index EUR Cap
7)	PLCBFHRC Index	Plenum CAT Bond UCITS Fund Index HR CHF Avg
8)	PLCBFHRE Index	Plenum CAT Bond UCITS Fund Index HR EUR Avg
9)	PLCBFHRU Index	Plenum CAT Bond UCITS Fund Index HR USD Avg
10)	PLCBFLRC Index	Plenum CAT Bond UCITS Fund Index LR CHF Avg
11)	PLCBFLRE Index	Plenum CAT Bond UCITS Fund Index LR EUR Avg
12)	PLCBFLRU Index	Plenum CAT Bond UCITS Fund Index LR USD Avg



Research

Plenum
Insurance Linked Capital

Plenum CAT Bond UCITS Fund Indices
Methodology I Index Family I Performance

June 2023

Since 2010, the market for CAT Bond funds in UCITS format has become a major pillar of the capital markets-based transfer of reinsurance risk, currently representing a 24% market share of the collateralized natural catastrophe business.

The Plenum CAT Bond UCITS Fund Indices (the "Indices") are a series of indices designed to reflect the returns of all CAT Bond funds available in the market in UCITS format. These are investable total return fund indices only, which are calculated and published on a weekly basis. The reference currencies of the Indices are the US dollar, the Euro and the Swiss franc. The Indices only use accumulating and currency-hedged fund share classes. The fund prices correspond to the NAV (net asset value) of the respective unit classes.

The Indices are calculated on an average and capital-weighted basis and are further divided into two risk categories for the average-weighted calculation. The index methodology below provides a comprehensive and detailed overview of its composition and calculation.

Methodology I Plenum CAT Bond UCITS Fund Indices I Plenum Investments Ltd. I Page 1

Sources: artemis.bm, trading-risk.com, Bloomberg.

Offering

Specialized investment solutions with a clear focus on insurance investment opportunities

Plenum CAT Bond Fund (UCITS)
Since 2010

- Approach: Globally diversified CAT Bond portfolio
- Market: Natural catastrophes
- Liquidity: Weekly
- Capacity: USD 0.85bn.
- Target return: money market +4%
- Sustainability: FNG-label (with star), SFDR Art. 8

Plenum CAT Bond Dynamic Fund (UCITS)
Since 2021

- Approach: Gobally diversified CAT Bond portfolio. Highly selective and capacity constrained approach. Positioned for an increase in frequency events as well as secondary perils
- Market: Natural catastrophes
- Liquidity: weekly
- Capacity: USD 400m at current CAT Bond market size
- Target return: 6.5% above money market
- Sustainability: SFDR Art. 8

Plenum Life Settlement Fund (AIF)
Since 2019

- Approach: Diversified portfolio of US life insurance policies
- Market: longevity risks
- Liquidity: monthly
- Capacity: USD 0.8bn.
- Target return: 9-11% in USD
- Sustainability: SFDR Art. 8

Plenum European Insurance Bond Fund (UCITS)
Since: 2021

- Approach: Diversified portfolio of subordinated debt issued by European insurance companies
- Market: Subordinated debt of European insurers
- Liquidity: daily
- Capacity: EUR 1bn.
- Target return: 3-4% above money market
- Sustainability: SFDR Art. 8

Plenum
Insurance Linked Capital

Plenum Life Settlement Fund

Mark-to-market valuation revolutionizes handling of US life policies

Conservatively managing longevity risk with high quality standards

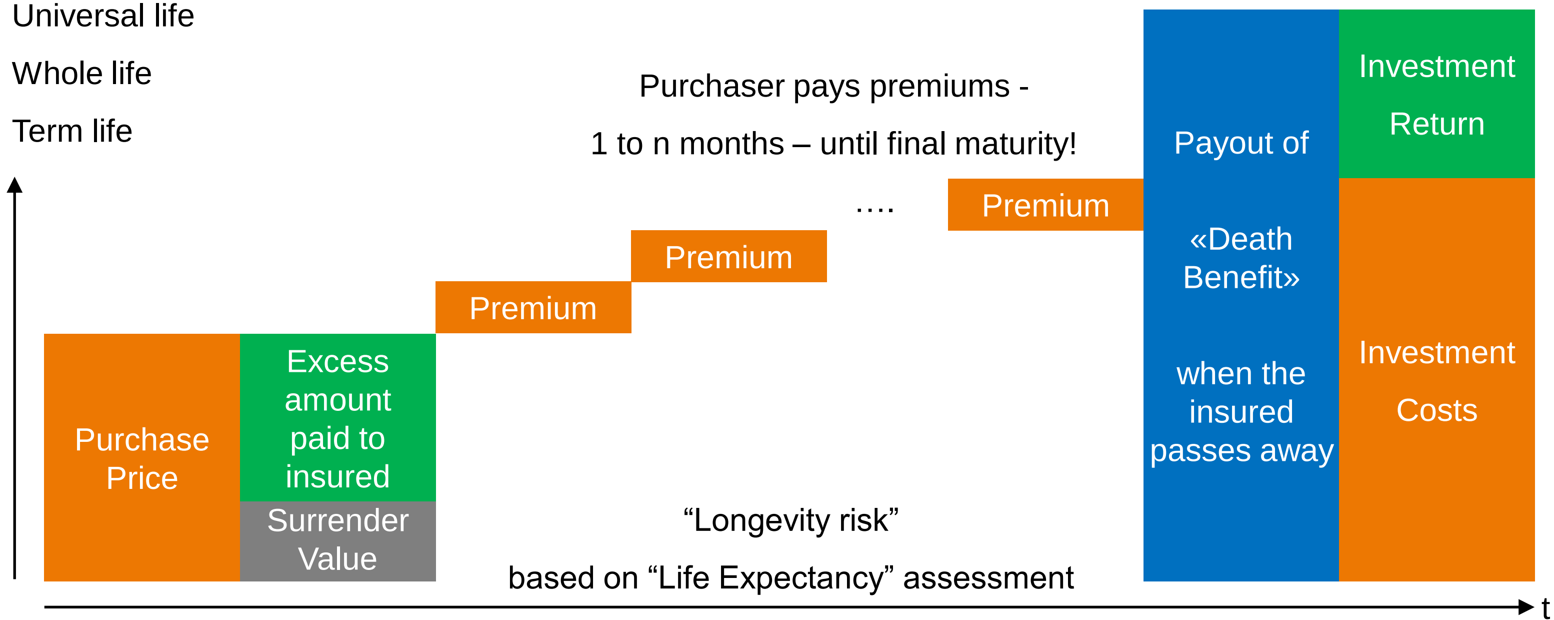
Transparency in an open-ended
investment fund with impact character

Life Settlement

How do they work?

Investment:

- US Life Insurance Policies:
    - Universal life
    - Whole life
    - Term life

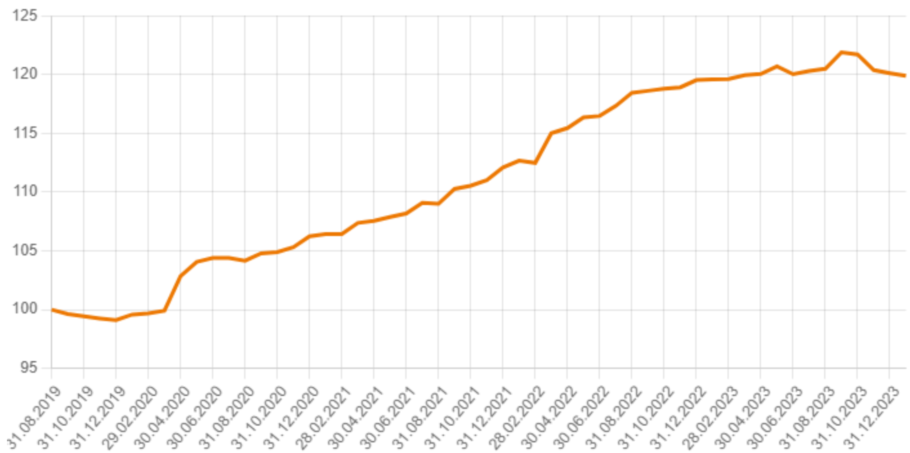


- “Purchase Price” paid to insured is significantly bigger than the “Surrender Value”
- “P&L” of the individual trade depends on correct assessment of “Life Expectancy”

Plenum
Insurance Linked Capital

Plenum Life Settlement Fund

Fund Facts (Share class BI USD as of 31.1.2024)



Performance (Table)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
2024	-0.19%	-	-	-	-	-	-	-	-	-	-	-	-0.19%
2023	0.05%	0.03%	0.28%	0.08%	0.53%	-0.55%	0.22%	0.17%	1.15%	-0.16%	-1.08%	-0.22%	0.49%
2022	0.51%	-0.16%	2.25%	0.37%	0.78%	0.11%	0.73%	0.95%	0.14%	0.15%	0.09%	0.52%	6.63%
2021	0.16%	0.01%	0.89%	0.16%	0.32%	0.27%	0.83%	-0.07%	1.17%	0.24%	0.43%	0.97%	5.51%
2020	0.47%	0.09%	0.23%	2.95%	1.17%	0.32%	0.00%	-0.21%	0.60%	0.10%	0.39%	0.89%	7.19%
2019	-	-	-	-	-	-	-	-	-0.37%	-0.20%	-0.17%	-0.14%	-0.88%

Source: Plenum

Portfolio Statistic

Face Value (in USD m)	81.12
No. of Policies (Portfolio/Closing)	95
Average Face Value per Policy (in USD m)	0.85
Average IRR (3 independant providers)	13.63%
Fund assets (in USD m)	32.16
ESG MSCI Score (Coverage)	A(83%)

Basic Data

Fund Domicile	Principality of Liechtenstein
Fund Structure	AIF
Distribution	LI/CH/DE
Base Currency	USD
Assets under Management	32.74mn
Appropriation of Income	accumulating
Fund Inception Date	31.08.2019
Financial Year	31. December
Evaluation interval	Monthly
Subscriptions (Cut-Off 16:00 MEZ)	3 BD before last BD of month (T)
Redemption	see Fund Prospectus
Minimum Investment in share class currency	500,000
Management Fee	1.00%
Incentive Fee (high watermark)	10.00% p.a.
TER (31.12.2022)	2.91%
ISIN	LI0490382368

Current Portfolio

Well Diversified Portfolio (as per 31.1.2024)

Top 5 Carrier		**Top 5 Issue States**	
Lincoln National Life Insurance Company	14.98%	CA	25.14%
Banner Life Insurance Company	10.92%	NY	10.24%
Transamerica Life Insurance Company	8.83%	TX	9.09%
Jackson National Life Insurance Company	5.27%	FL	6.55%
Pruco Life Insurance Company	4.97%	PA	5.98%

Insured Age		**Face Values**	
< 65 years	8.64%	< 250'000	1.38%
65 to 74 years	28.40%	250'000 to 500'000	28.15%
75 to 79 years	22.80%	501'000 to 1'000'000	46.18%
80 to 84 years	13.66%	1'001'000 to 1'500'000	4.47%
85 to 90 years	21.42%	1'501'000 to 2'000'000	7.64%
> 90 years	5.08%	> 2'000'000	12.19%

Carrier Rating		**Gender Groups**	
A++	9.13%	M	86.71%
A+	48.86%	F	11.45%
A	36.61%	Joint	1.84%
A-	1.40%		
B++	4.00%		

Weighted average insured age, years:	76.47	Weighted average LE at purchase, months:	109.70

Plenum
Insurance Linked Capital

Plenum Life Settlement Fund

Performance and diversification

- **Stable, attractive risk-adjusted returns**
  Annualised expected returns are 7 to 9% p.a.

- **Low correlation, high risk diversification effect**
  The main risk factor is fundamentally uncorrelated longevity.

- **Excellent credit quality**
  Insurance policies are considered senior debt in the insurers' capital structure.

- **Sustainability**
  Life Settlements provide capital to insureds who can't or won't afford the premium anymore – a social benefit.

- **Right moment to invest**
  Market IRRs are back to higher levels – a good opportunity to profit from lower purchase prices.

Contact details

Our offices

Switzerland

Plenum Investments AG
Brandschenkestrasse 41
CH-8002 Zürich

+41 43 488 57 50
info@plenum.ch
www.plenum.ch

Germany and Austria

Plenum Investor Services UG*
Ludwigstr. 14
DE-83646 Bad Tölz

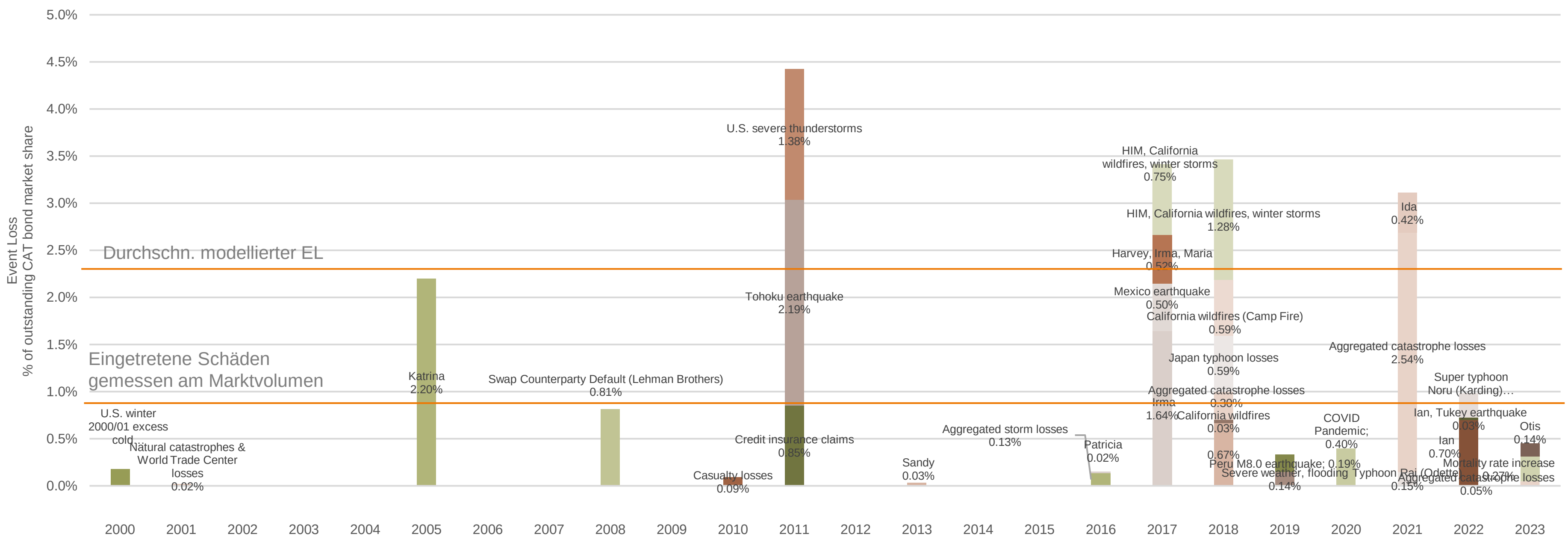
+49 8041 793 38 03
info@plenum.services
www.plenum.services

** Under the legal umbrella of Acolin Europe Ltd.*

Plenum
Insurance Linked Capital

Assessing quality of risk models

Actual losses in line with the modeled expectation



- Actual losses on CAT bonds exceeding the modeled EL of the CAT bond market of approx. 2.30% in 4 out of 22 years.
- Average loss (event losses divided by the outstanding market volume of the respective year) is 0.86% and thus significantly below the modeled CAT bond market EL
- Recent increase in events also due to expansion of the CAT bond market to new risk regions

Source: *Lane Financial, artemis.bm

Relevance of Growth/loss Drivers

Economic Growth | Value Concentration | Vulnerability | Claims inflation | Climate change

Drivers	Current relevance	Future relevance
Economic change (increase in value) Rise in real estate values and increase in insurance penetration	+++	+++
Demographic change (concentration of value) Urbanization and population growth	+++	+++
Vulnerability Construction activity in seismically active and weather-exposed areas	++	++
Inflation of receivables / social inflation Socio-economic and economic factors leading to increasing demand	++	++
Climate change Antropological effects on the climate and natural variability (multidecadal oscillation)	+	++?

- All drivers leading to increase in insured losses
- Rising demand for insurance and reinsurance
- All factors continuously taken into account in catastrophe models

Lincoln Road Miami
1904 vs. 2020

Plenum
Insurance Linked Capital

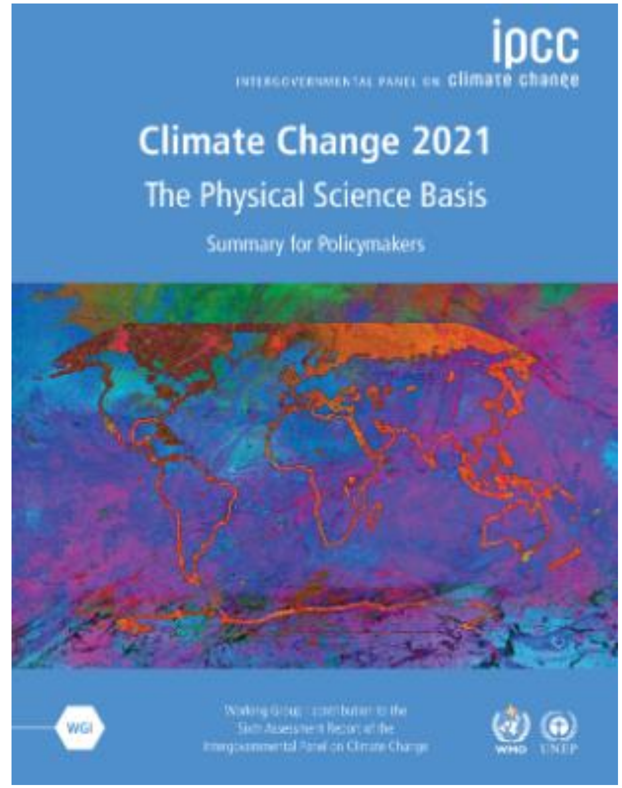
Future Hurricane Projections

Stronger and wetter storms more likely

2021 IPCC report

Projections for an increase in global average temperature of 2˚C:

- **Intensity of the hurricane: +5%**
  Maximum surface wind speed of a tropical cyclone expected to increase by 5%
- **Frequency of hurricanes: unchanged**
  Frequency of hurricanes expected to remain unchanged or to decrease globally
- **Rainfall rate: +12%**
  Average amount of rainfall from tropical cyclones worldwide expected to increase by around 12%
- **Other hurricane parameters:**
  Currently no clear consensus on the projected changes in the speed or path of tropical cyclones, although recent studies suggesting a slowdown outside the tropics

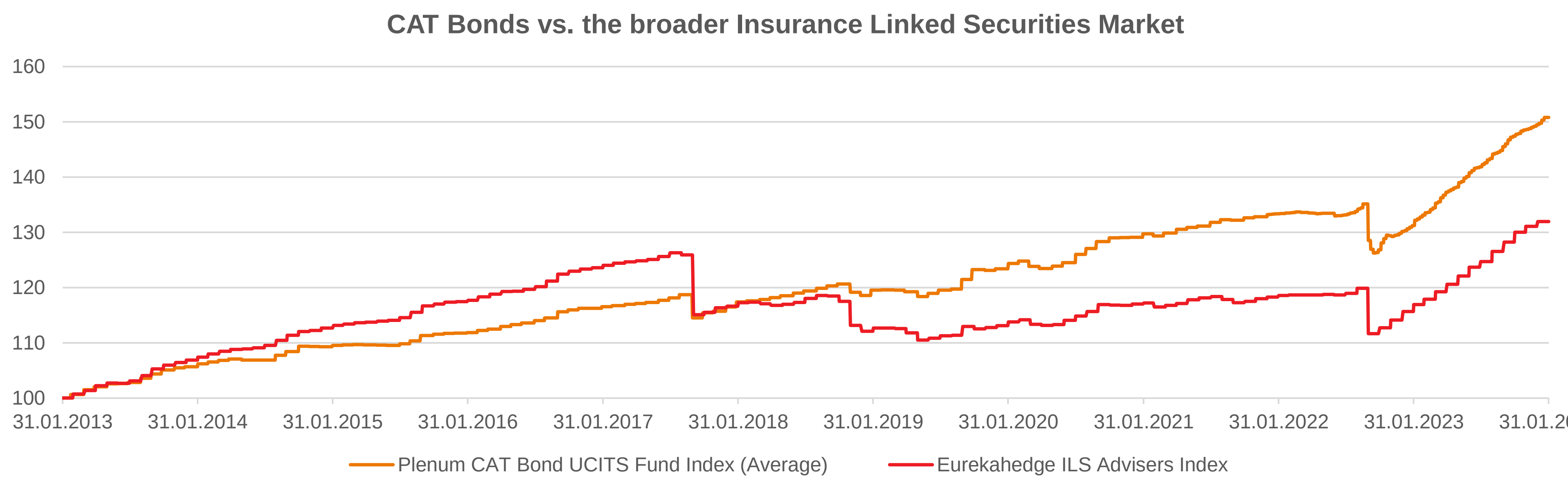


Source: IPCC Report 2021, Chapter 11.7.1.5, p. 1591 - 1592

CAT Bonds vs. the broader ILS Market

Significant outperformance of CAT Bonds

- CAT Bonds have significantly outperformed the broarder ILS Market since Hurricane Irma
- The broader ILS market has yet to recover the pre-Irma high, continuous outflows of hybrid funds deteriorated performance further
- The structural problem of Collateralized Reinsurance/Private ILS lies in the valuation of illiquid positions. CAT Bonds represent by far the more attractive asset class

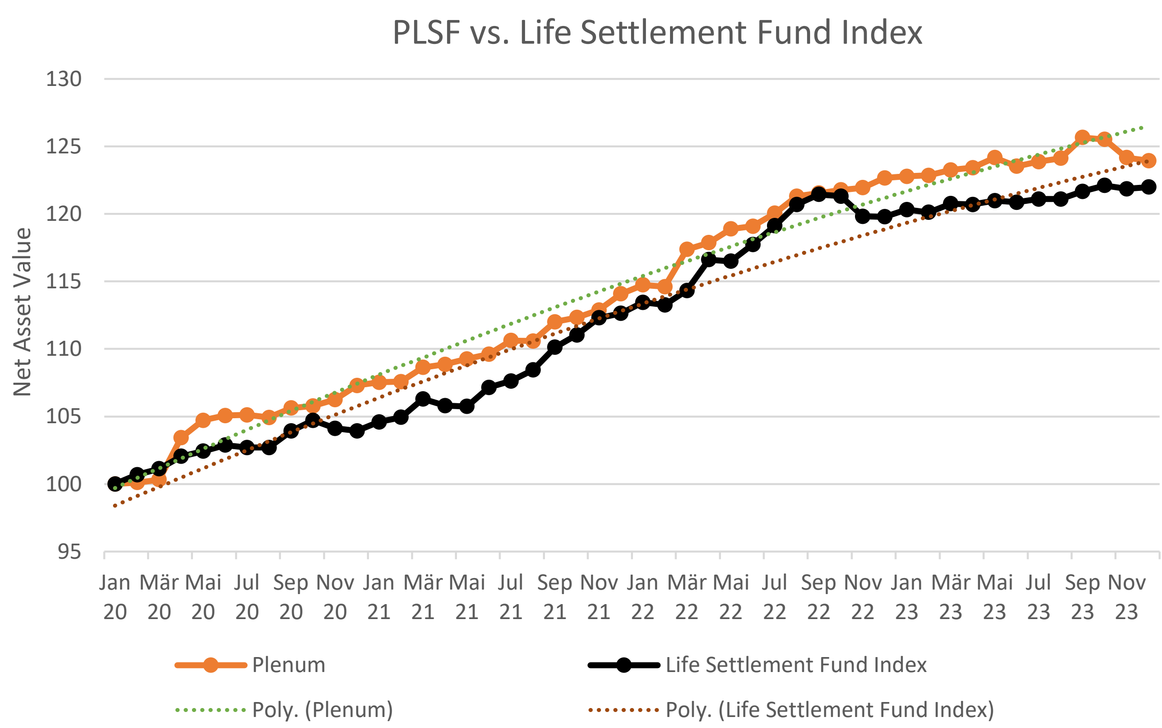


Source: Bloomberg.

Plenum
Insurance Linked Capital

Plenum Life Settlement Fund

Peer group comparison



- Annualized fund yield since 1.1.2020 5.51% p.a. in USD
- Conservative approach pays off
- Low volatility of 2,3% p.a.

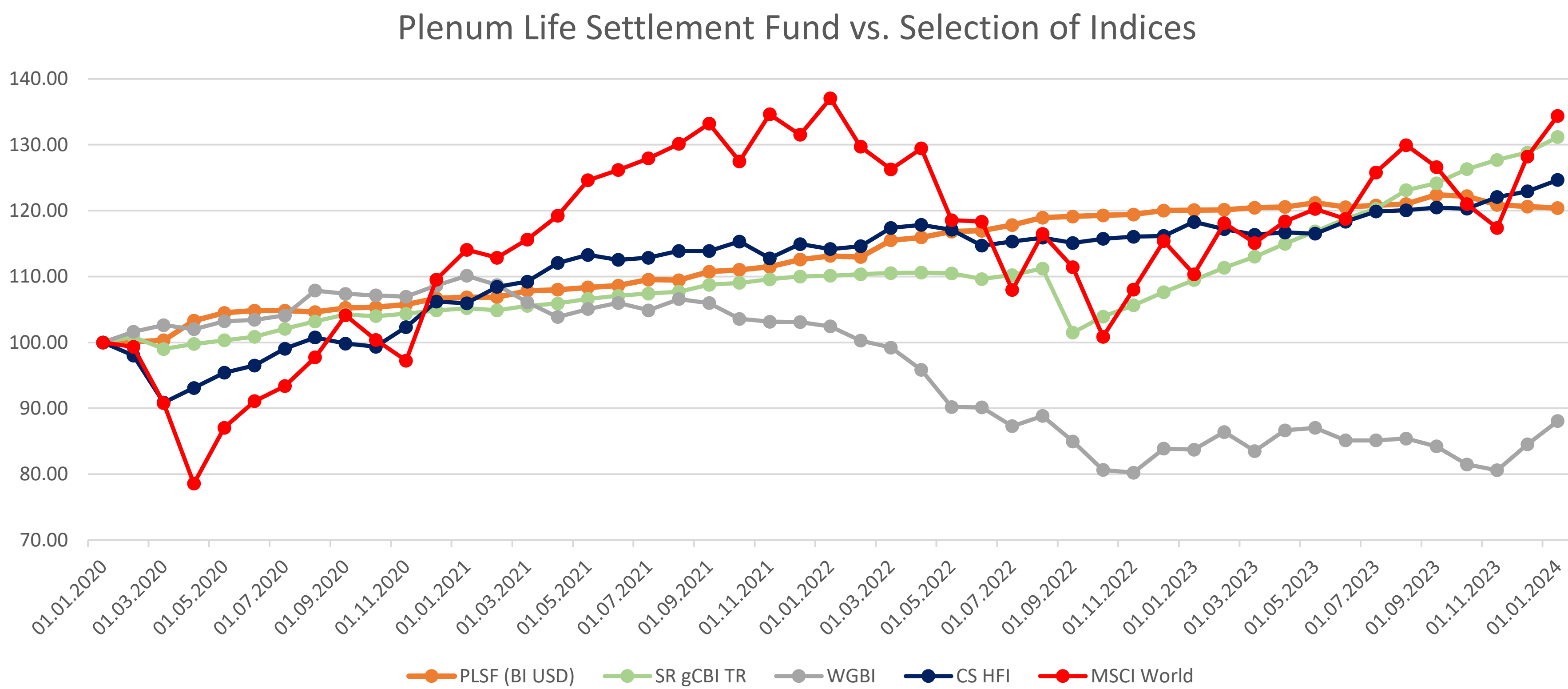
Index components: Life Settlement Funds: LTCF, High Protection Fund HPF, Ress, Laureola, BlackOak, PLSF (equally weighted)

Source: Data by Bloomberg, Index by Plenum

Plenum
Insurance Linked Capital

Plenum Life Settlement Fund

To put performance into perspective



- PLSF net of cost; all other indices gross

Source: Plenum, Bloomberg