# (QUARTALSWEISE)

# Jahresausblick 2024 – Das Jahr der Wandelanleihen!? 11. Januar 2024 um 15.00 Uhr

Moderator: **Moritz Jung Werner Krämer**, Geschäftsführer, Economic Analyst, LAM Deutschland **Emmanuel Naar**, Portfolio Manager/Analyst, LAM (New York)

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MC35394



# MAKROÖKONOMISCHER AUSBLICK

Werner Krämer, Geschäftsführer, **Economic Analyst** 

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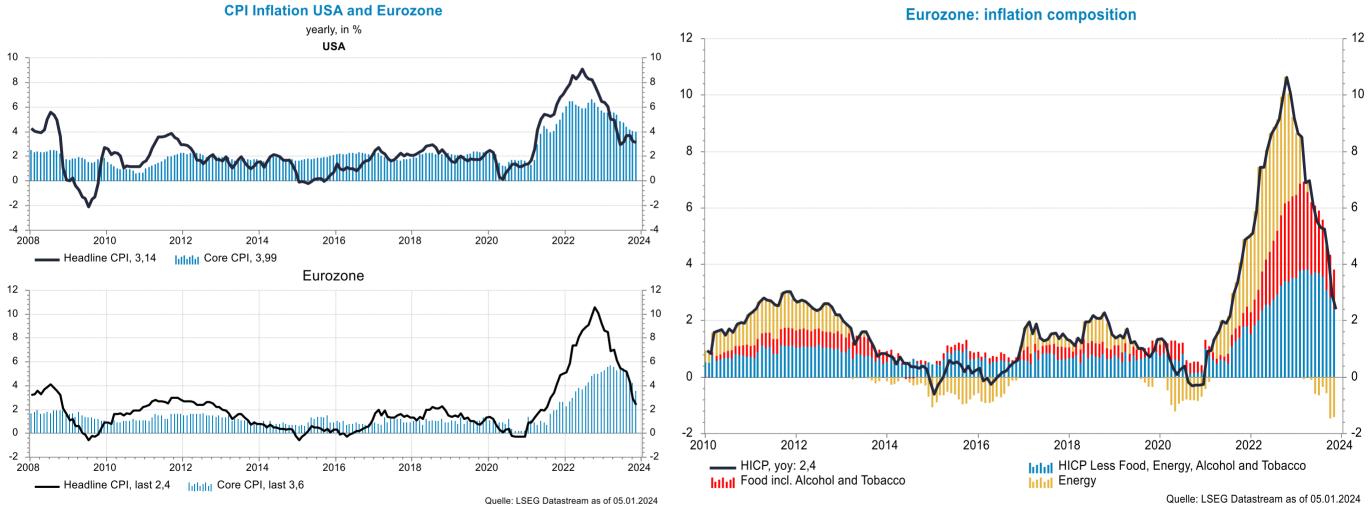
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# ASSET MANAGEMENT

## **GIPFEL INFLATION LIEGT HINTER UNS**

Zum Jahresstart 2024 ist das Inflationsthema für die Märkte zumindest vorübergehend in den Hintergrund getreten, auch wenn insbesondere die Kerninflation im historischen Vergleichsmaßstab immer noch deutlich zu hoch ist.



Quelle: LSEG Datastream as of 05.01.2024

## WACHSTUMSSCHWÄCHE RÜCKT IN DEN FOKUS

Das globale Wachstum (insbesondere die USA) hat sich in den letzten Monaten überraschend stabil gezeigt, aber zuletzt zeigten die Vorlaufindikatoren deutlicher nach unten. Die Einkaufsmanagerindizes deuten insbesondere in Europa und China auf eine Rezession hin, auch wenn der Dienstleistungssektor resilienter ist als die Industrie.

## Global Manufacturing PMIs (Seasonally Adjusted)

	Aug 22	Sep 22	Oct 22	Nov 22	Dec 22	Jan 23	Feb 23	March 23	Apr 23	May 23	June 23	July 23	Aug 23	Sep 23	Oct 23	Nov 23	Dec 23
AU	53,8	53,5	52,7	51,3	50,2	50,0	50,5	49,1	48,0	48,4	48,2	49,6	49,6	48,7	48,2	47,7	47,6
AT	48,8	48,8	46,6	46,6	47,3	48,4	47,1	44,7	42,0	39,7	39,0	38,8	40,6	39,6	41,7	42,2	42,0
BR	51,9	51,1	50,8	44,3	44,2	47,5	49,2	47,0	44,3	47,1	46,6	47,8	50,1	49,0	48,6	49,4	48,4
CA	48,7	49,8	48,8	49,6	49,2	51,0	52,4	48,6	50,2	49,0	48,8	49,6	48,0	47,5	48,6	47,7	45,4
CN	49,5	48,1	49,2	49,4	49,0	49,2	51,6	50,0	49,5	50,9	50,5	49,2	51,0	50,6	49,5	50,7	50,8
20	52,4	52,8	50,0	47,3	51,1	48,5	49,8	51,5	52,6	49,9	49,8	48,4	46,8	47,8	48,1	49,4	52,0
CZ	46,8	44,7	41,7	41,6	42,6	44,6	44,3	44,3	42,8	42,8	40,8	41,4	42,9	41,7	42,0	43,2	41,8
DК	48,5	49,2	49,5	45,6	49,3	52,4	37,3	45,5	47,7	45,9	47,1	N/A	N/A	N/A	N/A	N/A	N/A
EG	47,6	47,6	47,7	45,4	47,2	45,5	46,9	46,7	47,3	47,8	49,1	49,2	49,2	48,7	47,9	48,4	48,5
EuroZone	49,6	48,4	46,4	47,1	47,8	48,8	48,5	47,3	45,8	44,8	43,4	42,7	43,5	43,4	43,1	44,2	44,4
FR	50,6	47,7	47,2	48,3	49,2	50,5	47,4	47,3	45,6	45,7	46,0	45,1	46,0	44,2	42,8	42,9	42,1
DE	49,1	47,8	45,1	46,2	47,1	47,3	46,3	44,7	44,5	43,2	40,6	38,8	39,1	39,6	40,8	42,6	43,3
GR	48,8	49,7	48,1	48,4	47,2	49,2	51,7	52,8	52,4	51,5	51,8	53,5	52,9	50,3	50,8	50,9	51,3
N	56,2	55,1	55,3	55,7	57,8	55,4	55,3	56,4	57,2	58,7	57,8	57,7	58,6	57,5	55,5	56,0	54,9
D	51,7	53,7	51,8	50,3	50,9	51,3	51,2	51,9	52,7	50,3	52,5	53,3	53,9	52,3	51,5	51,7	52,2
E	51,1	51,5	51,4	48,7	48,7	50,1	51,3	49,7	48,6	47,5	47,3	47,0	50,8	49,6	48,2	50,0	48,9
Т	48,0	48,3	46,5	48,4	48,5	50,4	52,0	51,1	46,8	45,9	43,8	44,5	45,4	46,8	44,9	44,4	45,3
JP	51,5	50,8	50,7	49,0	48,9	48,9	47,7	49,2	49,5	50,6	49,8	49,6	49,6	48,5	48,7	48,3	47,9
MΥ	50,3	49,1	48,7	47,9	47,8	46,5	48,4	48,8	48,8	47,8	47,7	47,8	47,8	46,8	46,8	47,9	47,9
XN	48,5	50,3	50,3	50,6	51,3	48,9	51,0	51,0	51,1	50,5	50,9	53,2	51,2	49,8	52,1	52,5	52,0
MM	46,5	43,1	45,7	44,6	42,1	49,6	51,1	55,5	57,4	53,0	50,4	51,1	53,0	50,1	49,0	48,1	42,9
NL	52,6	49,0	47,9	46,0	48,6	49,6	48,7	46,4	44,9	44,2	43,8	45,3	45,9	43,6	43,8	44,9	44,8
РН	51,2	52,9	52,6	52,7	53,1	53,5	52,7	52,5	51,4	52,2	50,9	51,9	49,7	50,6	52,4	52,7	51,5
۶L	40,9	43,0	42,0	43,4	45,6	47,5	48,5	48,3	46,6	47,0	45,1	43,5	43,1	43,9	44,5	48,7	47,4
RU	51,7	52,0	50,7	53,2	53,0	52,6	53,6	53,2	52,6	53,5	52,6	52,1	52,7	54,5	53,8	53,8	54,6
<r td="" 🛛<=""><td>47,6</td><td>47,3</td><td>48,2</td><td>49,0</td><td>48,2</td><td>48,5</td><td>48,5</td><td>47,6</td><td>48,1</td><td>48,4</td><td>47,8</td><td>49,4</td><td>48,9</td><td>49,9</td><td>49,8</td><td>50,0</td><td>49,9</td></r>	47,6	47,3	48,2	49,0	48,2	48,5	48,5	47,6	48,1	48,4	47,8	49,4	48,9	49,9	49,8	50,0	49,9
ES	49,9	49,0	44,7	45,7	46,4	48,4	50,7	51,3	49,0	48,4	48,0	47,8	46,5	47,7	45,1	46,3	46,2
СН	56,7	56,8	55,4	54,4	54,5	49,3	48,9	47,0	45,3	43,2	44,9	38,5	39,9	44,9	40,6	42,1	43,0
ΓW	42,7	42,2	41,5	41,6	44,6	44,3	49,0	48,6	47,1	44,3	44,8	44,1	44,3	46,4	47,6	48,3	47,1
ΓH	53,7	55,7	51,6	51,1	52,5	54,5	54,8	53,1	60,4	58,2	53,2	50,7	48,9	47,8	47,5	47,6	45,1
/N	52,7	52,5	50,6	47,4	46,4	47,4	51,2	47,7	46,7	45,3	46,2	48,7	50,5	49,7	49,6	47,3	48,9
GB	47,3	48,4	46,2	46,5	45,3	47,0	49,3	47,9	47,8	47,1	46,5	45,3	43,0	44,3	44,8	47,2	46,2
JS	51,5	52,0	50,4	47,7	46,2	46,9	47,3	49,2	50,2	48,4	46,3	49,0	47,9	49,8	50,0	49,4	47,9
Vorld	50,3	49,8	49,4	48,8	48,7	49,1	49,9	49,6	49,6	49,5	48,7	48,6	49,0	49,2	48,8	49,3	49,0

Quelle: LSEG Datastream



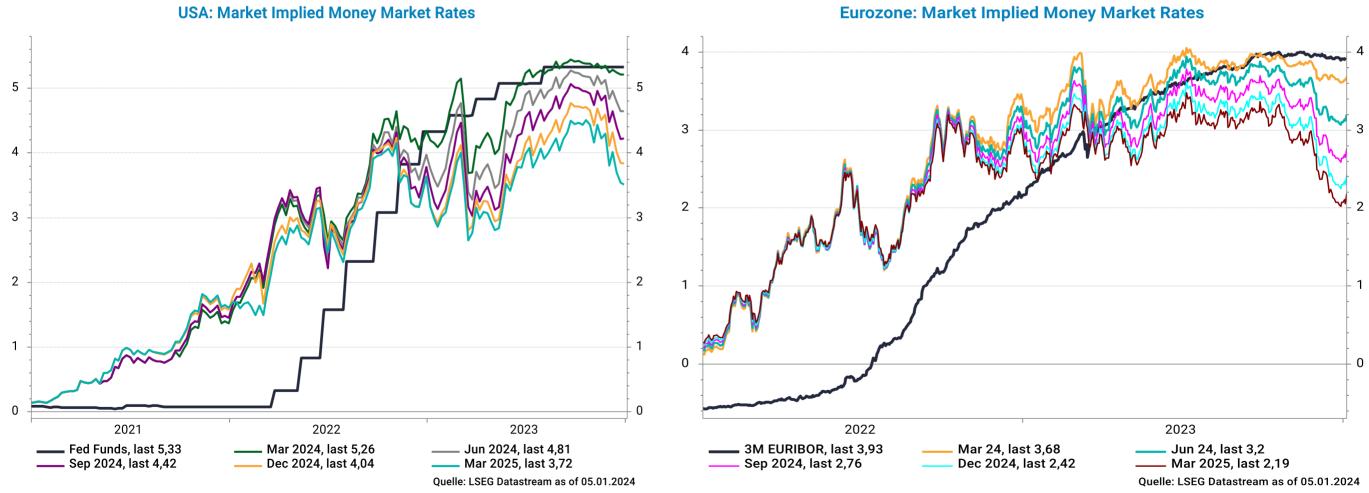
LAZARD ASSET MANAGEMENT

4

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## **GIPFEL LEITZINSEN**

Die Zentralbanken waren seit Frühjahr 2022 auf scharfem Zinserhöhungspfad, der jetzt aber beendet scheint. Die Marktpsychologie konzentriert sich nach den Zinserhöhungsängsten mittlerweile auf das Timing der in 2024 erwarteten Zinssenkungen. Die ersten Zinsschritte werden für die EZB noch im ersten, für die FED im zweiten Quartal erwartet.



Quelle: LSEG Datastream, Stand 5. Januar 2024

## **RISIKEN**

Krieg und Terror

Der Westen gegen den Rest

Der globale Immobilienmarkt

China

Schuldendynamik

Rechtsruck (inkl. Trump)

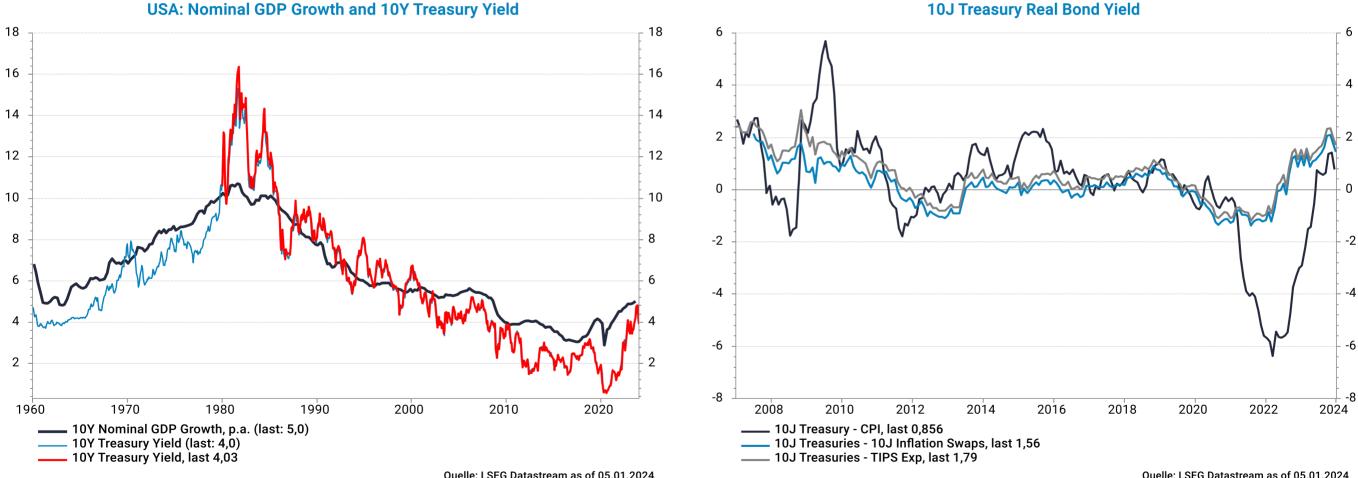


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## **GIPFEL (GLOBALE) STAATSANLEIHENRENDITEN**

Der Zins ist zurück und die Zinsmärkte haben schon sehr viel eingepreist. 3 % Rendite in 10J Bunds und 5 % Rendite in 10J Treasuries entsprechen langfristig einem fairen Wert, auch real betrachtet sind die Renditen wieder in Ordnung. Die Zinsrallye des vierten Quartals 2023 war aus unserer Sicht allerdings übertrieben.

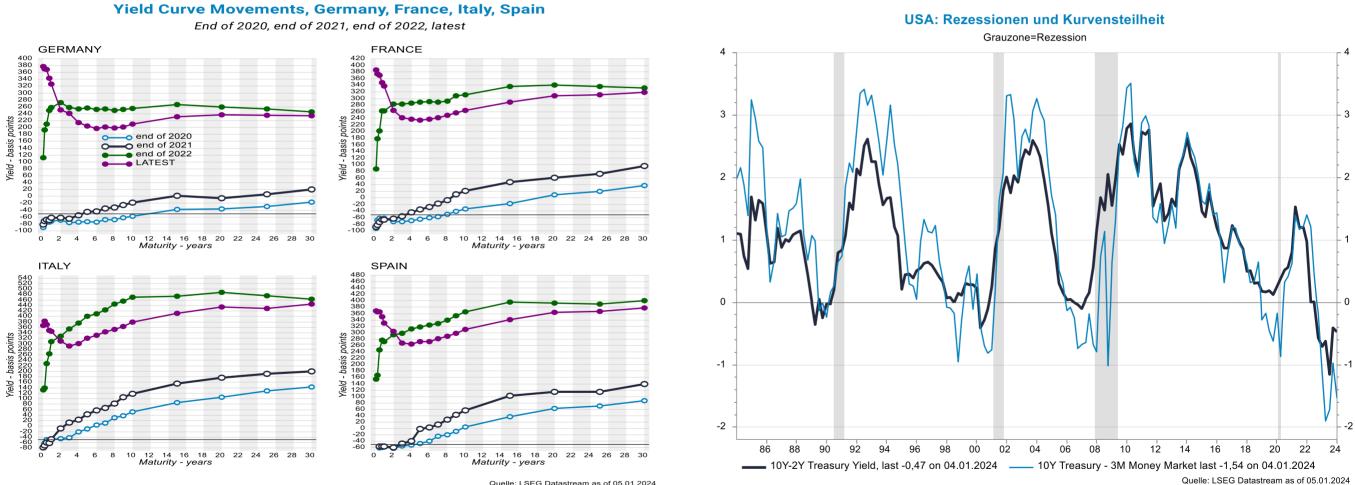


Ouelle: LSEG Datastream as of 05.01.2024

#### Ouelle: LSEG Datastream as of 05.01.2024

## NORMALISIERUNG AM RENTENMARKT

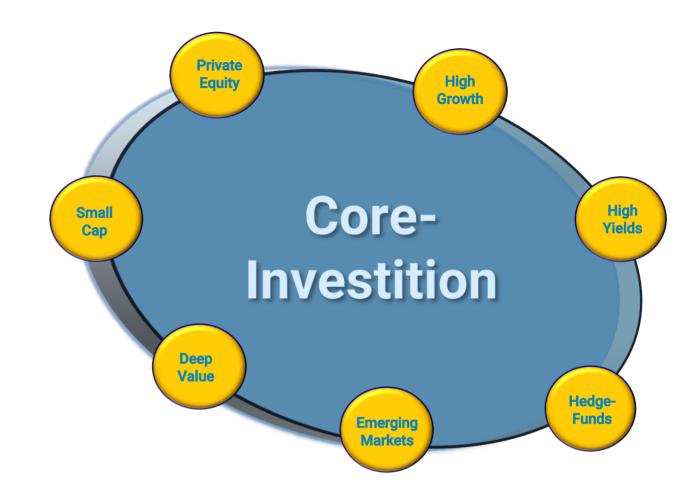
Die stark steigenden Leitzinsen in 2022 und 2023 haben zu dramatischen Verwerfungen der Zinsstrukturkurve geführt. Eine der ausgeprägtesten und am schnellsten ablaufenden Invertierungen der Kapitalmarktgeschichte machte die Vermögensanlage extrem schwierig. Allmählich sollten sich die Kurven wieder normalisieren.



Quelle: LSEG Datastream as of 05.01.2024

## WELCHE (LIQUIDEN) ASSETKLASSEN?

- Wandelanleihen
- Kurzlaufende Anleihen
- Globale, flexible Anleihen-Strategien
- Gold und Rohstoffe
- **Emerging Markets Anleihen**
- (Skandinavische) Hochzinsanleihen
- Globale Qualitätsaktien (Substanz oder Wachstum)
- Gelistete Infrastruktur
- Emerging Markets/Asiatische/Japanische Aktien

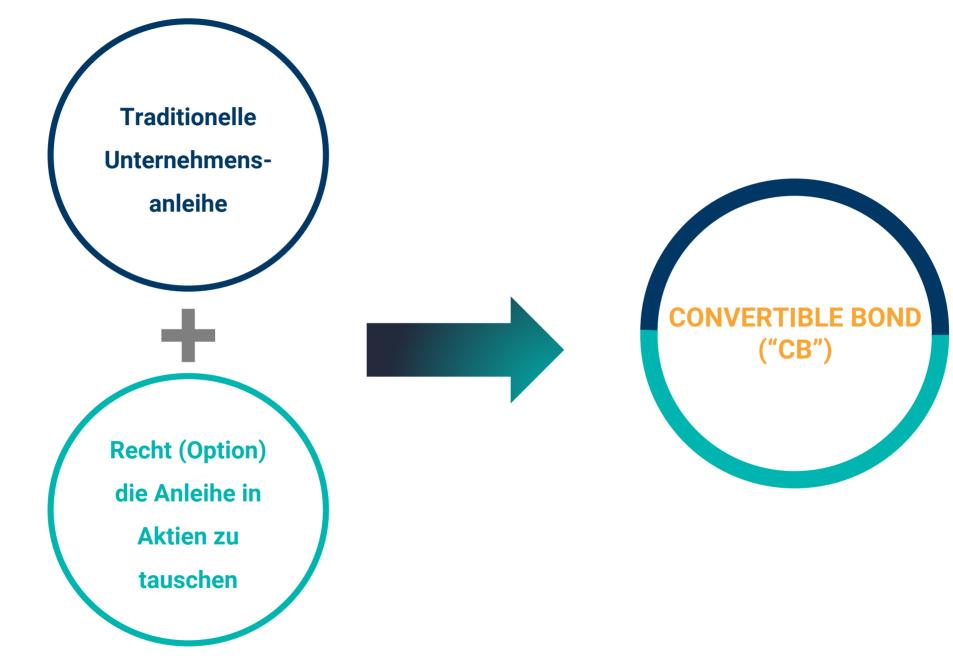


Bestehende Risiken ändern nichts an der Notwendigkeit eines wohl diversifizierten Portfolios, das die verschiedenen Ziele und Risiken austariert.

Quelle: Lazard

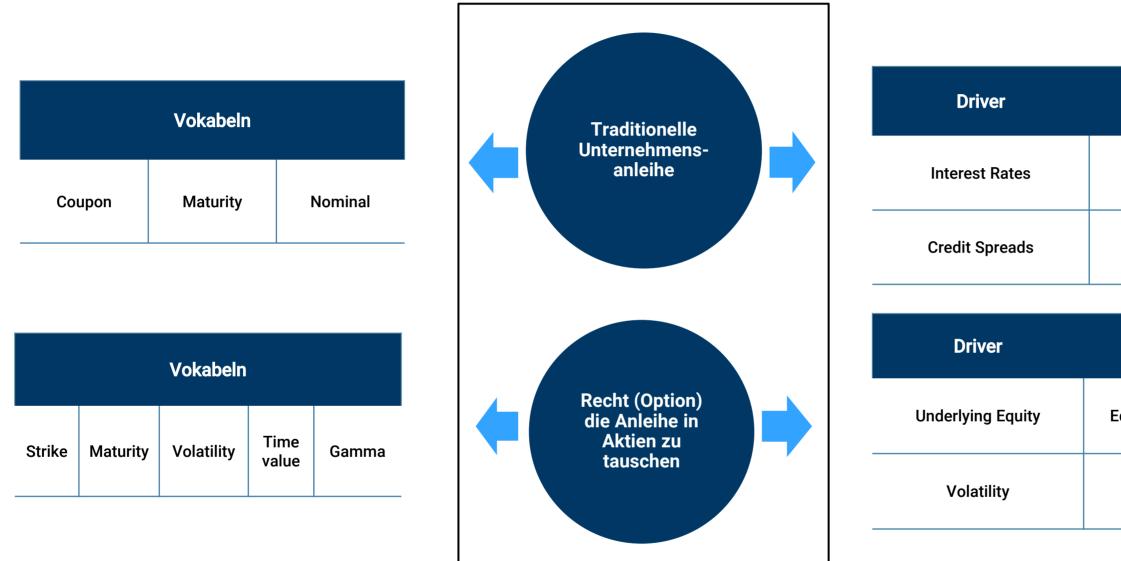


## KURZE AUFFRISCHUNG WANDELANLEIHEN



Die oben geäußerte Meinung ist zum Zeitpunkt dieser Präsentation gültig und kann sich ändern. Nur zu illustrativen Zwecken.

# SENSITIVITÄTEN VON WANDELANLEIHEN



Nur zu Illustrationszwecken. Definitionen der oben genannten Begriffe finden Sie im Anhang am Ende dieser Präsentation.

## Metrics

#### **Modified Duration**

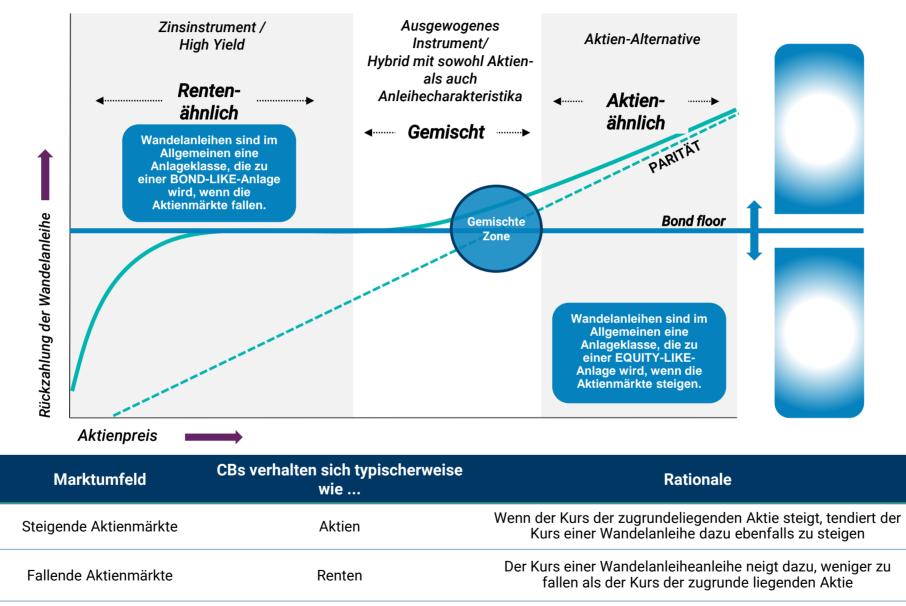
**Credit Spread Sensitivity** 

**Metrics** 

Equity Exposure/ Convexity

Vega

## WAS SIND WANDELANLEIHEN? Eine asymmetrische Anlage - Konvexität



Nur zu Illustrationszwecken.

Definitionen der oben genannten Begriffe finden Sie im Anhang am Ende dieser Präsentation.



## WANDELANLEIHEN SIND ZURÜCK

## **BREAKINGVIEWS-Convertibles will be 2024's hot financial** model - Reuters News

02 Jan 2024 16:09:51

The author is a Reuters Breakingviews columnist. The opinions expressed are his own.

By Jeffrey Goldfarb

NEW YORK, Jan 2 (Reuters Breakingviews) - Now is a good time to take a spin in a new convertible. Refinancing needs and higher interest rates will refuel the crossbred bonds that once helped springboard Citadel founder Ken Griffin from Harvard student to billionaire hedge fund manager. And new features should tempt investors to ride off with them again.

Convertible notes that provide steady income, but which can turn into shares at pre-agreed prices, sputtered after a \$370 billion pandemic-era boom in 2020 and 2021. Roaring stocks ultimately made the equity piece more alluring, even enabling dozens to be sold bearing zero interest. Emblematic of the crop was a \$1 billion issuance from Covid-hyped fitness company Peloton Interactive PTON.O that required a 60% rise in its stock price to convert.

The theoretically optimized hybrid of loss-protected debt and equity-like upside crashed into stark reality, however, In 2022, the S&P 500 Index .SPX dropped by some 20%. Now, more than \$200 billion of these securities are set to mature by 2025, reckon BNP Paribas analysts, with many of the associated stocks well below their conversion prices. Peloton's has fallen more than 90% since borrowing the funds.

Despite the many lemons clunking around the market, fresh models are being engineered. Benchmark U.S. interest rates have reached a two-decade high, making it more expensive to borrow. The lower coupons paid by convertible bonds and the delay in any equity dilution should be attractive under the circumstances. By mid-November 2023, issuance had jumped 34% from the same span a year earlier versus a 65% decline in leveraged loans and a mere 4% bump for investment-grade debt, according to LSEG.

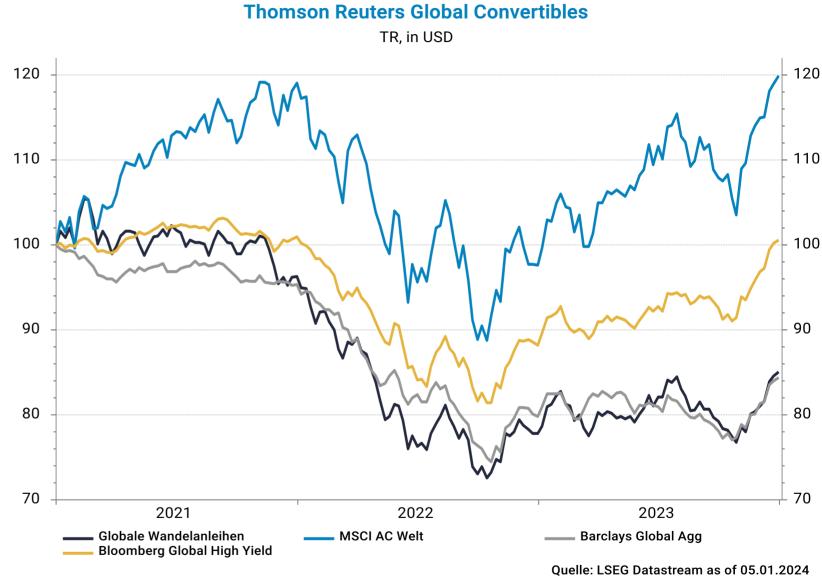


## WANDELANLEIHEN VOR IHREM COMEBACK?

Gründe, warum Wandelanleihen vor einem Comeback stehen könnten:

(1) Günstige Einstiegsniveaus: Die Kurse von Small/Mid Cap-Aktien sind insbesondere in 2022 stark gefallen und haben sich seither nicht richtig erholen können

(2) Zinswende als Katalysator: Die Aktien, die dem Markt für US-Wandelanleihen zugrunde liegen, reagieren besonders sensitiv auf Veränderungen bei den US-Staatsanleihen; stärker als der S&P und der NASDAQ.



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Januar 2024

# LAZARD **GLOBAL CONVERTIBLES**

11 January 2024

# Emmanuel Naar, Portfolio Manager/Analyst Lazard Asset Management (New York)

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# Agenda

- A. Convertible Bonds Global Market Overview
- B. Current Opportunities in the Convertible Bonds Market
- C. Positioning and Performances
- D. Conclusion
- E. Appendix
  - a. Biographies
  - b. GIPS<sup>®</sup> Standards Composite Information
  - c. Glossary

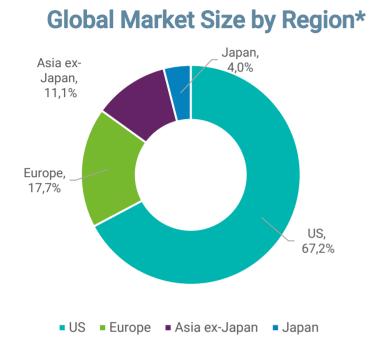




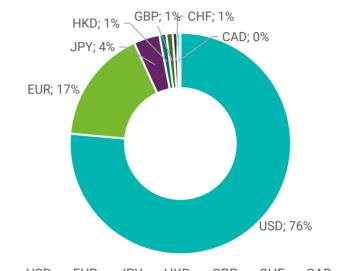
# Convertible Bonds Global Market Overview



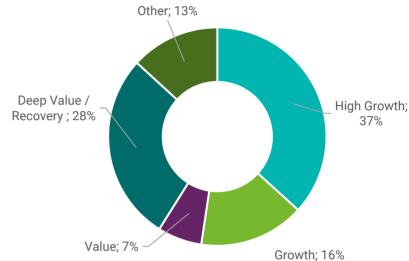
# GLOBAL CONVERTIBLE BOND DYNAMICS A Market Dominated By US Convertible Bonds



## **Global Market Size by Bond Currency**



## Market Distribution by Style<sup>2</sup>

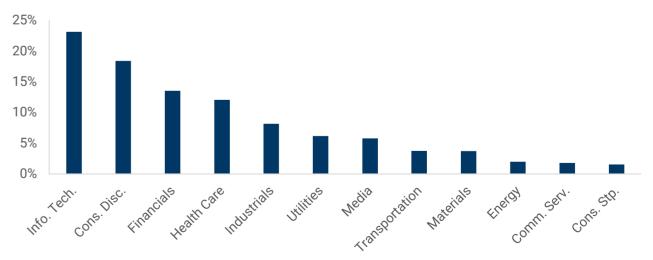


■ USD ■ EUR ■ JPY ■ HKD ■ GBP ■ CHF ■ CAD

## **Global Market Size by Sector**

- Technology companies have always been active issuers of convertible bonds
- Since the Covid crisis, strong acceleration of tourism, events and airlines sectors (recovery companies)
- Strong presence of growth and mid-cap companies (≈61% of the market)
- 61% of convertible bond issuers only issue convertible bonds (versus other security types)

As of 31 December 2023 Source: BofA Global Research, Jefferies \*Region of the underlying equity





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19

# **GLOBAL CONVERTIBLE BOND DYNAMICS** New Issue Trends

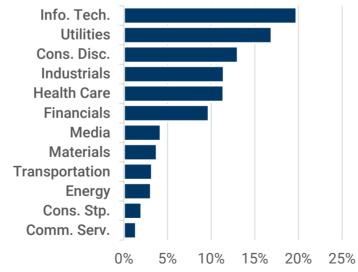
## **Key Facts**

- YTD issuance levels compares relatively well to historical trends
- Issuance continue to be more favorable to investors. with an evolution to higher coupons and lower premiums (versus 2021)
- New investment grades issuance has been high as a share of issuance across all regions. In the US, IG issuance has been focused in utilities, Asia in technology while Europe has been more broad-based.

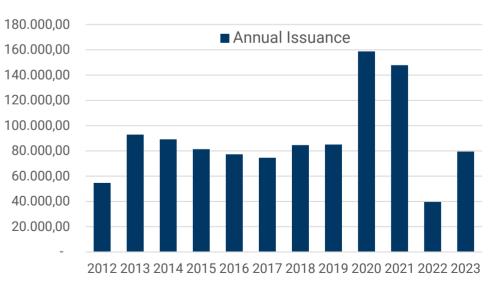
	YTD 2023	2022	2021
New Issuance	\$79.4bn	\$39.5bn	\$147.8bn
Avg. Size	\$533mm	\$439mm	\$543mm
Avg. Premium	28.8%	30.5%	37.9%
Avg. Coupon	3.13%	3.20%	0.97%

## 2023 Region of issuance Japan Asia 5% 11% Europe US 17% 67%

## 2023 Sector of issuance



## Historical Issuances (in USD mm)



As of 31 December 2023. Source: BofA Global Research, Bloomberg Lazard. Data in USD. 1. External ratings only.



# Current Opportunities in the Convertible Bonds Market



## VALUATION OF UNDERLYINGS

## Growth and Mid-caps in the US have cheapened

## **Key Facts**

- Most issuers of convertible bonds are mid caps, with a strong representation of growth
- Despite significant Earnings increases during the last 3 years, the equity prices have fallen.

**Underperformance of mid-cap growth** companies versus large caps since early 2021



## **Despite rising EPS during the period**





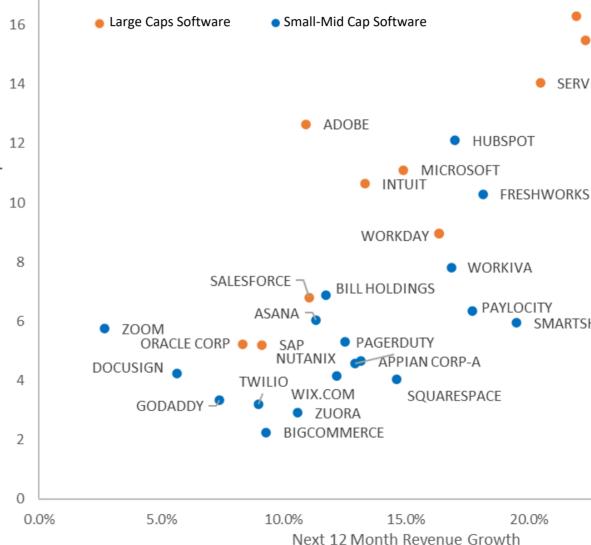
Performance period from 31 December 2020 to 31 December 2023. Past performance does not guarantee future performance. Performances vary. Source: Lazard, Bloomberg

## VALUATION OF UNDERLYINGS

Growth and Mid caps in the US have cheapened



## **Expected growth versus valuation in the US Software space**





SERVICENOW

MONDAY.COM

KLAVIYO

SMARTSHEET-CLASS A

25.0%

30.0%

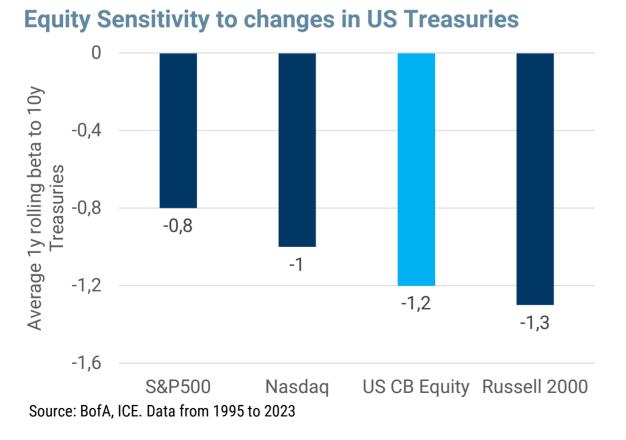


## VALUATION OF UNDERLYINGS

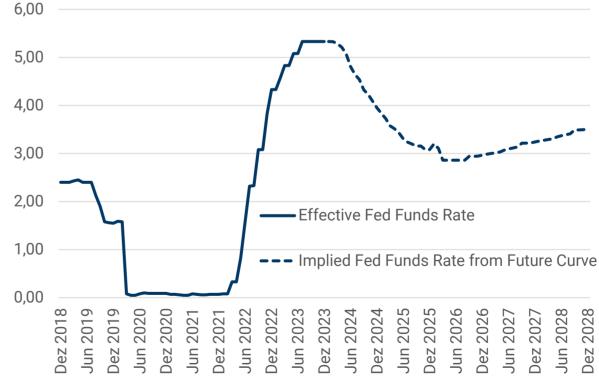
## Convertible bonds equities are very sensitive to interest rates

## **Key Facts**

- The equities that underlies the US Convertible bond market are highly sensitive to change in us ٠ Treasuries, even more than S&P and Nasdaq.
- This would become a backwind if market expectations of interest rate cuts materializes ٠







Ņ D	02	2025	02	02	02.	02.	0
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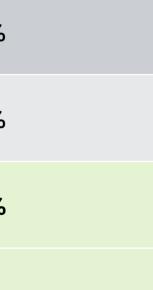
# **GLOBAL CONVERTIBLE BOND STRUCTURES**

## Market conditions

• The **IT sector** currently has a relatively high share of high yielding convertible bonds, with 40% of bonds yielding over 5%.

Yield Bracket	Global Convertible Bonds in the IT sector	Global Convertibl all sector
Negative	40.0%	37.4%
0%-5%	19.5%	33.3%
5%-10%	36.2%	23.8%
Greater than 10%	4.3%	5.4%

## le Bonds in ors



## **GLOBAL CONVERTIBLE BOND STRUCTURES**

Attractive Credit Pick up versus High Yield

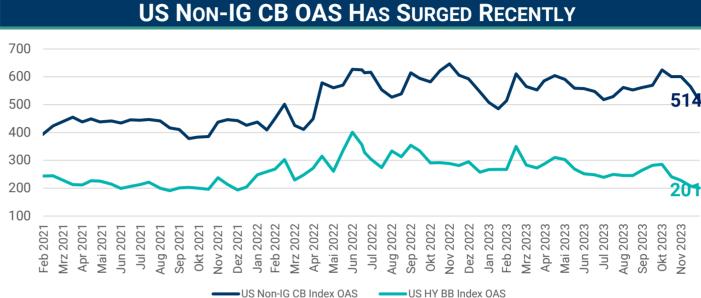
« Non-Investment grade » convertible bonds have a wider credit spread than high yield traditional bonds in the US:

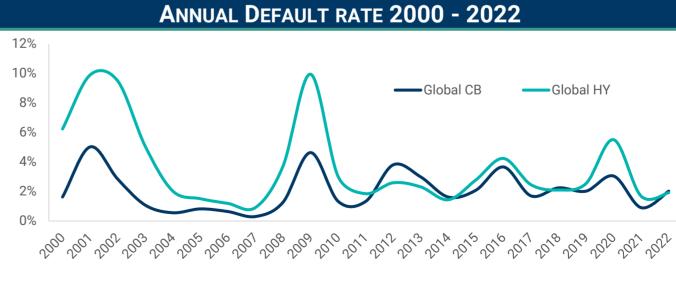
+313 bps versus Corporate bonds BB index +204 bps versus Corporate bonds B index

...despite much lower historical default rates for the Convertibles asset class versus High Yield asset class

Since 2000, convertible bonds have exhibited 44% less defaults than High Yield bonds (2.1% average default rate versus 3.7%)

As of 31 December 2023. Sources: Barclays, Lazard, Refinitiv, BAML, S&P







# **GLOBAL CONVERTIBLE BONDS Resilient liquidity**

- Liquidity, as measured by bid-ask spreads, deteriorated slightly in March 2020. It remained nevertheless at reasonable levels versus other asset classes
- With **58 bps of average bid-ask spreads**, we are back to normal liquidity levels



**Average Bid / Ask Spreads of Global Convertible Bond Market** 

Larger new issues brings higher liquidity



# **Positioning and Performances**



# **INVESTMENT PLATFORM FOCUSED ON CONVERTIBLE BONDS** \$6.6 bn





As of 30 September 2023

Represents the total assets (LAM + LFG) managed by the Global Convertible team. Source: Lazard

Lazard US Convertibles

## LAZARD GLOBAL CONVERTIBLES STRATEGY

Investment Strategy			Performanc	ce Summary
Long-only Global Convertibles Portfolio	Period	Gross Return	Net Return	Benchmark <sup>2</sup>
	2023 YTD	7.85%	7.28%	5.55%
<ul> <li>Invests in global convertible bonds</li> <li>Multi ourropov</li> </ul>	2022	-16.68%	-17.36%	-13.80%
<ul><li>Multi-currency</li><li>No leverage</li></ul>	2021	4.88%	4.02%	3.55%
Benchmark: Refinitiv Convertible Global Focus	2020	27.80%	26.33%	15.04%
	2019	17.08%	15.68%	14.07%
Active Management <sup>1</sup>	2018	3.56%	2.44%	-0.02%
• Historically an active chara above 90% on average	2017	8.14%	6.99%	-3.67%
<ul> <li>Historically, an active share above 80% on average</li> </ul>	2016	9.93%	8.81%	3.23%
<ul> <li>Concentrated strategy: target between ~60 to ~75</li> </ul>	1 Year	7.85%	7.28%	5.55%
holdings	3 years (ann.)	-1.96%	-2.49%	-1.97%
<ul> <li>Strategic asset size that allows for alpha</li> </ul>	5 years (ann.)	7.12%	6.28%	4.33%
generation	10 years (ann.)	8.47%	7.48%	4.40%

#### As of 31 December 2023

Performance is presented in Euro (unhedged) and is preliminary. Performance returns are shown both on a gross and net of fees basis. Net performance is calculated based on actual fees. For fee calculations, please refer to Lazard's standard fee schedule on the attached "GIPS® Standards Composite Information". The performance quoted represents past performance. Past performance is not a reliable indicator of future results. The Lazard Global Convertibles Strategy has been managed by Arnaud Brillois since 1 January 2008.

1. The portfolio construction parameters identified on this page are subject to change in the investment team's discretion and are not fixed limitations.

2. The Lazard Global Convertibles Strategy (the "Strategy") may engage in investment strategies not utilized by this index and may utilize instruments not used by this index. The index shown is unmanaged and has no fees. One cannot invest directly in an index.

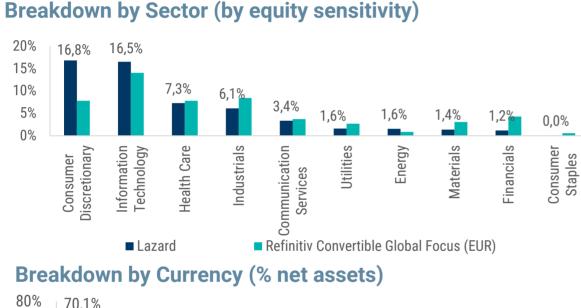
Source: Lazard, Refinitiv

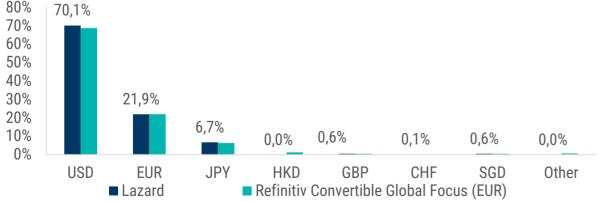
Relative (bps, Gross)	Relative (bps, Net)
+230 bps	+173 bps
-288 bps	-356 bps
+133 bps	+47 bps
+1276 bps	+1129 bps
+301 bps	+161 bps
+358 bps	+246 bps
+1181 bps	+1066 bps
+670 bps	+558 bps
+230 bps	+173 bps
+1 bps	-52 bps
+278 bps	+194 bps
+407 bps	+308 bps

# LAZARD GLOBAL CONVERTIBLES

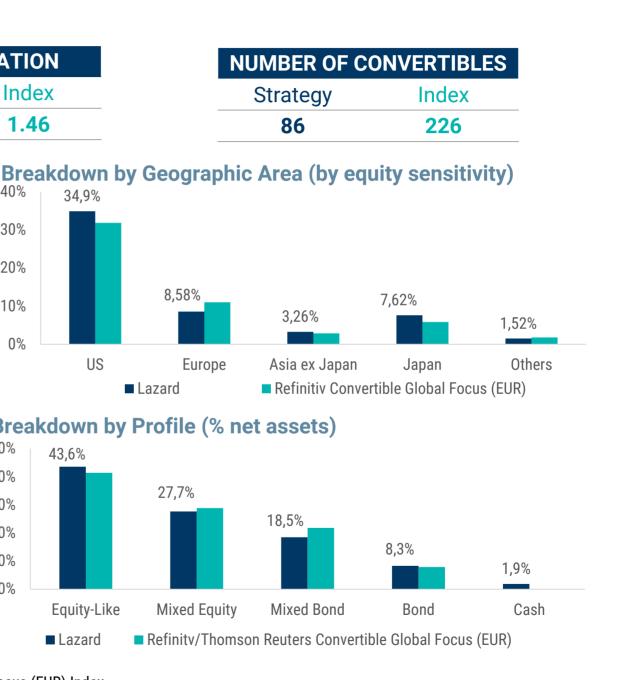
## **Current Positioning**

EQUITY SENSITIVITY							
Strategy	Index						
55.9%	53.3%						

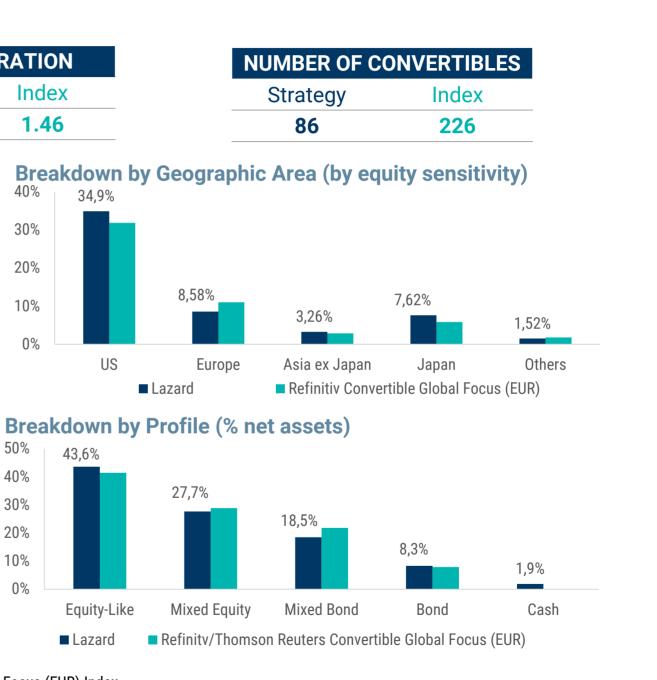




MODIFIED	DURATION	NUMBER OF COM
Strategy	Index	Strategy
1.74	1.46	86



## Breakdown by Profile (% net assets)



As of 31 December 2023

Allocations and security selection are subject to change. Index data shown above is for the Refinity Convertible Global Focus (EUR) Index. Source: Lazard, Refinitv



# Conclusion



## **LOOKING AHEAD TO 2024**

# Important valuation drivers should become net contributors to the performance of the asset class:

		2022	2023	2024 Expected
$\sim$	Equity Sensitivity	×		
	Credit Sensitivity	X	×	
<b>%</b>	Interest Rate Sensitivity	×		$\checkmark$
	Option Valuation	×	×	
\$	Yield	Absent	NEW S	

Source: Lazard.

The opinions expressed above are as of the date of this presentation and subject to change.



# Appendix



## **PORTFOLIO MANAGEMENT TEAM**

## Lazard Global Convertibles

#### **Portfolio Management New York Arnaud Brillois. CFA** Pierre-Alexis M. Blua **Emmanuel Naar** Andrew T. Raah Portfolio Manager/Analyst Portfolio Manager/Analyst Portfolio Analyst Managing Director, Lead Portfolio Manager/Analyst Lazard Asset Management Lazard Asset Management Lazard Asset Management

Lazard Asset Management Joined in 2008<sup>1</sup>

Joined in 2015<sup>2</sup>

Joined Lazard in 2004 Joined team in 2018

**Investment Resources** 

Joined Lazard in 2018 Joined team in 2021

## Dragonfly

Lazard's unique and proprietary digital message board allows investment professionals to share insights and discuss potential outcomes of macroeconomic issues and developments

## Paris (LFG)

Convertible bond research team

## New York (LAM)

### Sector and Regional Expertise:

 More than 300 investment professionals, specialised by sector and region

### **Equity and Fixed Income Expertise:**

- 50+ fixed-income investment professionals with an average 19 years of industry experience
- 170+ equity investment professionals with an average of 18 years of industry experience

## Source: Lazard. As of 30 November 2023

<sup>1</sup> Arnaud joined Lazard Freres Gestion (LFG) in 2008 before relocating to New York with Lazard Asset Management (LAM) in 2017.

<sup>2</sup> Emmanuel joined Lazard Freres Gestion (LFG) in 2015 before relocating to New York with Lazard Asset Management (LAM) in 2019.

The management of convertible bonds strategies is delegated from LFG to LAM. The Lazard Global Convertibles investment team does not share research or trading information with Lazard's Rathmore (hedged convertibles) team. Our team is traditionally stable, unfortunately, we are unable to guarantee the presence of the managers listed above during the life of the product. The information listed above is current as of the date of this presentation.

## Paris



'Emmanuel Cuche Portfolio Manager/Analyst Lazard Frères Gestion

Joined in 2018

# FIXED INCOME TRADING TEAM Lazard Global Convertibles

## Trading

**Chris Milonopoulos** Director, Trader Lazard Asset Management Joined in 2010



Colin T. Cavasina Senior Vice President, Portfolio Analyst Lazard Asset Management Joined in 2008



Stephanie Levine, CFA Director, Trader/Analyst Lazard Asset Management Joined in 2017



Ada Chin Senior Vice President, Trader Lazard Asset Management Joined in 2013



Jared Daniels, CFA Managing Director Lazard Asset Management Joined Lazard in 1998



Stephanie Osterhus Senior Vice President, Portfolio Analyst Lazard Asset Management Joined in 2007



**FX Trade Execution** 

Sandeep Sadineni, CFA Portfolio Analyst Lazard Asset Management Joined Lazard in 2016

Source: Lazard. As of 30 November 2023

The management of convertible bonds strategies is delegated from LFG to LAM. The Lazard Global Convertibles investment team does not share research or trading information with Lazard's Rathmore (hedged convertibles) team. Our team is traditionally stable, unfortunately, we are unable to guarantee the presence of the managers listed above during the life of the product. The information listed above is current as of the date of this presentation.



## **KEY FEATURES & ADVANTAGES OF LAZARD GLOBAL CONVERTIBLES**

12 years average experience, with over 20 years on the asset cla the lead portfolio manager
4 Portfolio Managers located in the US and in Europe, (90% of t universe)
High-conviction portfolio, absolute return approach. Concentrated portfolio (80 holdings versus 200+ for the bench
Robust and proven bottom-up process. High active share, historically >80% in average
Demonstrated ability to outperform benchmark and peers w regularity.

The performance quoted represents past performance. Past performance is not a reliable indicator of future results.



## **PORTFOLIO MANAGEMENT TEAM BIOGRAPHIES**











### Arnaud Brillois. CFA

Managing Director, Fund Manager/Analyst Lazard Asset Management LLC (New York)

Arnaud Brillois. CFA is Managing Director and Fund Manager/Analyst on the Global Convertibles team. He began working in the investment industry in 2000. Arnaud joined Lazard Freres Gestion (LFG) in 2008 and was the Head of Convertible Bonds and Co-head of Alternative and Structured Products before relocating to New York with Lazard Asset Management in 2017. Prior to joining Lazard, he was the Director of Alpha Bonds and Convertible Bonds Management at Natixis Asset Management. Arnaud is a graduate of ISCID (Institut Superieur de Commerce International de Dunkergue). He is a CFA® charterholder and has successfully passed the SFAF (Societe Francaise des Analystes Financiers) and FRM exams

### **Emmanuel Naar**

Fund Manager/Analyst Lazard Asset Management LLC (New York)

Emmanuel Naar is a Senior Vice President and Portfolio Manager/Analyst on the Global Convertibles investment team. Emmanuel originally joined Lazard Frères Gestion in Paris in 2015 and transferred to Lazard Asset Management in 2019. Previously, he was a trader at Citigroup's Fixed Income division in London, covering developed markets. Emmanuel holds a Master of Science in Risk and Investment Management from EDHEC Business School

## Andrew T. Raab

#### Fund Manager/ Analyst

#### Lazard Asset Management LLC (New York)

Andrew Raab is a Director and Portfolio Manager/Analyst on the Global Convertibles investment team. Prior to joining the convertible bond team in 2018, Andrew was a Research Analyst on the Emerging Income team specializing in emerging market currency and debt. He started his career in 2004 at Lazard Asset Management where first he managed security pricing in the firm's portfolio accounting system and later joined the Alternative Investment Operations group. Andrew has an MBA from the Stern School of Business at New York University and a BS in Business Administration from Georgetown University.

### **Emmanuel Cuche**

#### Fund Manager/Analyst

#### Lazard Frères Gestion (Paris)

Emmanuel Cuche is a Vice President and joined the Convertible Bond investment team in 2018, assuming a Portfolio Manager/Analyst position under the responsibility of Arnaud Brillois. He spent three years working as an Investment Director and Multi-Asset Manager at Acer Finance. He interned as a Quantitative Analyst in a hedge fund before completing an Equity-analyst internship at Lazard Frères Gestion in 2015. He holds both a Financial Markets Master from Université Paris Dauphine and a double undergraduate degree in Law and Economics.

### **Pierre-Alexis M. Blua**

#### **Portfolio Analyst** Lazard Asset Management LLC (New York)

Pierre-Alexis Blua is a Portfolio Analyst supporting the Global Convertibles team. Prior to his current role, he was a Marketing Associate on the RFP Team. He began working in the investment field in 2018 upon joining Lazard. He has a Global Bachelor of Business Administration (GBBA) in Business Administration and Management with a focus in Finance from ESSEC Business School in France. He is fluent in French.

## FIXED INCOME TRADING TEAM BIOGRAPHIES



#### **Chris Milonopoulos**

Director. Trader

#### Lazard Asset Management LLC (New York)

Chris Milonopoulos is the lead Trader on Lazard's Emerging Markets Debt team. He began working in the investment field in 2000. Prior to joining Lazard in 2010, Chris was a consultant at Ernst & Young LLP in their asset management practice focusing on FX and money market trading. Previously, he was an investment analyst and junior trader at HSBC Asset Management (formerly Halbis) focusing on Emerging Markets Debt and Currencies. Chris started his career at Bloomberg LP, where he was a senior account manager and later a sales team leader for alternative investments. Chris has an MBA and MS in Engineering from Columbia University and a Bachelor of Engineering from McGill University.



### Stephanie Levine, CFA

## Director, Trader/Analyst

#### Lazard Asset Management LLC (New York)

Stephanie Levine is a Trader/Analyst on the US Fixed Income team. She began working in the investment field in 2008. Prior to joining Lazard in 2017, Stephanie was a director of Municipal Bond Sales with Barclays Capital. She has a Bachelor of Arts in Mathematics and Film & Media Culture from Middlebury College. Stephanie is a CFA® charterholder.



### Colin T. Cavasina

#### Senior Vice President, Portfolio Analyst Lazard Asset Management LLC (New York)

Colin Cavasina is a Portfolio Analyst on the Global Fixed Income team and is primarily responsible for analysis/trading. He began working in the investment field in 2001. Prior to joining Lazard in 2008, Colin was a Vice President in Fixed Income Trading Operations at Bear Stearns, Inc., where he oversaw middle office operations for Emerging Market, Investment Grade and High Yield credit desks. Previously Colin was a fixed income trading assistant at Oppenheimer Funds, Inc. Prior to that, he worked at IFS, N.A. LLC in the Middle Office Trade Operations division. Colin has a BA in Economics from Denison University.



#### **Ada Chin**

#### Senior Vice President, Trader Lazard Asset Management LLC (New York)

Ada Chin is a Trader on Lazard's Emerging Markets Debt team. Prior to joining Lazard in 2013, Ada was the Director of Operations at Tandem Global Management LP, responsible for all operational aspect of their Emerging Markets and Credit hedge funds. Before that, she was Head of Operations at Guggenheim Partners, a multi-strategy all-transparent managed account platform. Prior to that, Ada was an operations analyst for Alpha Investment Management, a multi strategy hedge fund and funds-of-funds firm. She started her career in Bear Stearns & Co, completing a rotational accounting program and worked as a business unit controller on the Risk Arbitrage desk. Ada has BA in Accounting and Finance from NYU's Stern School of Business.

## FIXED INCOME TRADING TEAM BIOGRAPHIES



### **Jared Daniels. CFA**

#### Managing Director Lazard Asset Management LLC (New York)

Jared Daniels is a Portfolio Manager/Analyst on the Global Fixed Income team. He began working in the investment industry in 1997. Prior to joining Lazard in 1998, Jared was with CIBC Oppenheimer Corporation. He has a BS in Public Financial Management with a minor in Economics from Indiana University. Jared is a CFA® charterholder and a member of the New York Society of Security Analysts (NYSSA).



### Sandeep Sadineni, CFA

#### Portfolio Analyst Lazard Asset Management LLC (New York)

Sandeep Sadineni is a Portfolio Analyst on the Global Fixed Income team. Prior to joining the team, Sandeep was leading the Quantitative Trading Insights group. He began working in the investment field in 2011. Prior to joining Lazard in 2016, Sandeep was Treasury Engineering Lead with GE Capital. He has a Master's Degree in Electrical Engineering from Bradley University and an Undergraduate Degree from Andhra University. Sandeep is a CFA® Charterholder and a member of the local Stamford CFA society.



### **Stephanie Osterhus**

#### Senior Vice President, Portfolio Analyst Lazard Asset Management LLC (New York)

Stephanie Osterhus is a Portfolio Analyst on the US Fixed Income team. Stephanie primarily focuses on managing portfolio investment deviation and implementation risk. In addition to supervising investment flows and managing trading controls, Stephanie is responsible for the proper interpretation of the various regulatory and client directed constraints in fixed income strategies. Stephanie began working in the investment industry in 1987 as an economics research analyst. Prior to joining Lazard in 2007, she was a Vice President with Nomura Securities International where she primarily focused on global trading and related controls in structured and rate products. Stephanie has an MBA from the Lubin School of Business at Pace University.

## **GIPS® STANDARDS COMPOSITE INFORMATION**

## Lazard Global Convertibles

#### Benchmark:

Reporting Date: Composite Inception Date: Reporting Currency: Refinitiv Global Focus Convertible Index 31 December 2022 01 January 2008 U.S. Dollar

#### **Composite Description**

The composite returns represent the total returns of all fully discretionary portfolios with a Global Convertibles mandate and a minimum market value of  $\in 20$  million. Prior to February 1, 2019, the composite minimum was  $\in 10$  million. The strategy invests in global convertible bonds universe and the strategy seeks to outperform the Refinitiv Convertible Global Focus Index in the mid-term. The investment process will use quantitative and qualitative analysis to select convertible bonds with the highest potential in terms of underlying equity, credit exposure and implied valuations. The strategy seeks to optimize the convexity and asymmetry of the convertible bond asset class while actively managing the macro sources of performance. The strategy tends to be concentrated to generate some alpha but diversified enough to decrease the specific risk. The strategy's overall exposure to interest rates and equity markets is actively managed and the investment team may, and has in the past, use futures, swaps, options, credit derivatives, and forward currency contracts to hedge and/or adjust the strategy's exposure to equity, interest rate, currency, and credit risks. Performance data prior to December 31, 2017 represents the strategy managed by the Convertibles team at a prior firm and comprise substantially of all the investment decision makers of that team. The Convertibles team employs a substantially similar investment strategy to manage this Global Convertibles strategy as it did at its prior firm.

#### Calculation of Performance Returns

Policies for valuing investments, calculating performance, and preparing GIPS reports are available upon request. The composite returns are reported net of foreign withholding taxes on dividends, interest and capital gains. The composite returns presented represent past performance and is not a reliable indicator of future results, which may vary. A complete list and description of all Lazard composites and pooled funds is available upon request.

#### Fee Schedule

Lazard's standard fee schedule for the Global Convertibles strategy accounts is 0.70% per annum on the first \$50 million, 0.65% on the next \$100 million, 0.60% on the next \$100 million and 0.55% on the balance. (This fee schedule may be presented in non-U.S. local currency equivalents based on prevailing exchange rates.) Unless otherwise noted, actual account fees, inclusive of performance-based fees and VAT (if applicable) are used in the construction of composite net of fee performance. For non-fee paying portfolios and sleeves of funds, net of fee performance has been calculated using the strategy's standard fee schedule. Fund performance in this composite is net of all fees.

#### Benchmark Information

The Refinitiv Convertible Global Focus Bond Index (net interest reinvested). It reflects the performance of global convertible bonds. The Focus sub-index is an index which is selected to contain balanced issues.

#### **GIPS Compliance and Verification Status**

Lazard Asset Management claims compliance with the Global Investment Performance Standards (GIPS®) and has prepared and presented this report in compliance with the GIPS standards. Lazard Asset Management has been independently verified for the periods January 1, 1993 through December 31, 2022. The verification reports are available upon request. A firm that claims compliance with the GIPS standards must establish policies and procedures for complying with all the applicable requirements of the GIPS standards. Verification provides assurance on whether the firm's policies and procedures related to composite and pooled fund maintenance, as well as the calculation, presentation, and distribution of performance, have been designed in compliance with the GIPS standards and have been implemented on a firm-wide basis. Verification does not provide assurance on the accuracy of any specific performance report. Lazard Asset Management is the "Firm" to which the GIPS Standards apply (Frankfurt office included in Firm definition as of January 1, 2003). GIPS® is a registered trademark of CFA Institute. CFA Institute does not endorse or promote this organization, nor does it warrant the accuracy or quality of the content contained herein. The composite creation date is December 2017.

	Calendar									
	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013
Lazard Rate of Return (%; Gross of Fees)	-21.81	-2.52	39.31	14.97	-1.41	23.12	6.74	-0.57	2.96	17.40
Lazard Rate of Return (%; Net of Fees)	-22.24	-3.06	37.80	13.59	-2.48	21.81	5.65	-1.48	1.83	16.24
Benchmark (%; Rate of Return)	-19.11	-3.76	25.40	12.01	-4.82	9.67	0.23	-0.16	-1.16	12.91
Composite Standard Deviation Gross (3-yr. Ann.)	15.64	12.50	12.27	6.88	7.83	8.76	9.01	8.33	7.90	11.65
Benchmark Standard Deviation (3-yr. Ann.)	13.03	10.69	10.52	5.72	6.02	6.42	7.13	6.71	6.81	8.42
# of Portfolios	1	1	1	1	1	1	1	1	1	1
Composite Dispersion Gross (Asset Wtd. Std. Dev.)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Composite Assets (USD Millions)	4053.7	6508.1	5735.9	3256.6	1892.5	1128.2	501.8	442.5	369.6	237.8
Total Firm Assets (USD Billions)	169.0	222.1	213.0	205.5	177.2	206.6	168.0	160.1	171.4	161.6

## GIPS® STANDARDS COMPOSITE INFORMATION Lazard Global Convertibles (Euro)

Benchmark: Reporting Date: Composite Inception Date: Reporting Currency: Refinitiv Global Focus Convertible Index 31 December 2022 01 January 2008 Euro

#### **Composite Description**

The composite returns represent the total returns of all fully discretionary portfolios with a Global Convertibles mandate and a minimum market value of  $\in$ 20 million. Prior to February 1, 2019, the composite minimum was  $\in$ 10 million. The strategy invests in global convertible bonds universe and the strategy seeks to outperform the Refinitiv Convertible Global Focus Index in the mid-term. The investment process will use quantitative and qualitative analysis to select convertible bonds with the highest potential in terms of underlying equity, credit exposure and implied valuations. The strategy seeks to optimize the convexity and asymmetry of the convertible bond asset class while actively managing the macro sources of performance. The strategy tends to be concentrated to generate some alpha but diversified enough to decrease the specific risk. The strategy's overall exposure to interest rates and equity markets is actively managed and the investment team may, and has in the past, use futures, swaps, options, credit derivatives, and forward currency contracts to hedge and/or adjust the strategy's exposure to equity, interest rate, currency, and credit risks. Performance data prior to December 31, 2017 represents the strategy managed by the Convertibles team at a prior firm and comprise substantially of all the investment decision makers of that team. The Convertibles team employs a substantially similar investment strategy to manage this Global Convertibles strategy as it did at its prior firm.

#### **Calculation of Performance Returns**

Policies for valuing investments, calculating performance, and preparing GIPS reports are available upon request. The composite returns are reported net of foreign withholding taxes on dividends, interest and capital gains. The composite returns presented represent past performance and is not a reliable indicator of future results, which may vary. A complete list and description of all Lazard composites and pooled funds is available upon request.

#### Fee Schedule

Lazard's standard fee schedule for the Global Convertibles strategy accounts is 0.70% per annum on the first \$50 million, 0.65% on the next \$100 million, 0.60% on the next \$100 million and 0.55% on the balance. (This fee schedule may be presented in non-U.S. local currency equivalents based on prevailing exchange rates.) Unless otherwise noted, actual account fees, inclusive of performance-based fees and VAT (if applicable) are used in the construction of composite net of fee performance. For non-fee paying portfolios and sleeves of funds, net of fee performance has been calculated using the strategy's standard fee schedule. Fund performance in this composite is net of all fees.

#### Benchmark Information

The Refinitiv Convertible Global Focus Bond Index (net interest reinvested). It reflects the performance of global convertible bonds. The Focus sub-index is an index which is selected to contain balanced issues.

#### **GIPS Compliance and Verification Status**

Lazard Asset Management claims compliance with the Global Investment Performance Standards (GIPS®) and has prepared and presented this report in compliance with the GIPS standards. Lazard Asset Management has been independently verified for the periods January 1, 1993 through December 31, 2022. The verification reports are available upon request. A firm that claims compliance with the GIPS standards must establish policies and procedures for complying with all the applicable requirements of the GIPS standards. Verification provides assurance on whether the firm's policies and procedures related to composite and pooled fund maintenance, as well as the calculation, presentation, and distribution of performance, have been designed in compliance with the GIPS standards and have been implemented on a firm-wide basis. Verification does not provide assurance on the accuracy of any specific performance report. Lazard Asset Management is the "Firm" to which the GIPS Standards apply (Frankfurt office included in Firm definition as of January 1, 2003). GIPS® is a registered trademark of CFA Institute. CFA Institute does not endorse or promote this organization, nor does it warrant the accuracy or quality of the content contained herein. The composite creation date is December 2017.

	Calendar									
	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013
Lazard Rate of Return (%; Gross of Fees)	-16.68	4.88	27.80	17.08	3.56	8.14	9.93	10.76	17.24	12.33
Lazard Rate of Return (%; Net of Fees)	-17.14	4.30	26.42	15.68	2.44	6.99	8.81	9.74	15.95	11.21
Benchmark (%; Rate of Return)	-13.80	3.55	15.04	14.07	-0.02	-3.67	3.23	11.22	12.55	8.03
Composite Standard Deviation Gross (3-yr. Ann.)	12.97	10.30	10.22	6.72	7.45	10.01	9.71	8.64	4.93	7.43
Benchmark Standard Deviation (3-yr. Ann.)	10.60	8.76	8.70	5.63	5.26	7.80	7.31	7.12	4.55	5.82
# of Portfolios	1	1	1	1	1	1	1	1	1	1
Composite Dispersion Gross (Asset Wtd. Std. Dev.)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Composite Assets (EUR Millions)	3798.3	5722.9	4687.9	2901.2	1655.5	939.5	475.8	407.3	305.4	172.6
Total Firm Assets (EUR Billions)	158.3	195.3	174.1	183.0	155.0	172.1	159.2	147.4	141.6	117.2

## GIPS® STANDARDS COMPOSITE INFORMATION Lazard Global Convertibles EUR Hedged

Benchmark:
Reporting Date:
Composite Inception Date:
Reporting Currency:

Refinitiv Global Focus Convertible Index Hedged (EUR) 31 December 2022 01 April 2010 Euro

#### **Composite Description**

The composite returns represent the total returns of all fully discretionary portfolios with a Global Convertibles (EUR Hedge) mandate and a minimum market value of  $\in$ 20 million. Prior to February 1, 2019, the composite minimum was  $\in$ 10 million. The strategy invests in global convertible bonds universe and seeks to outperform the Refinitiv Convertible Global Focus EUR Hedged Index in the mid-term. The investment process will use quantitative and qualitative analysis to select convertible bonds with the highest potential in terms of underlying equity, credit exposure and implied valuations. The strategy seeks to optimize the convexity and asymmetry of the convertible bond asset class while actively managing the macro sources of performance. The strategy tends to be concentrated to generate some alpha but diversified enough to decrease the specific risk. The strategy's overall exposure to interest rates and equity markets is actively managed and the investment team may, and has in the past, use futures, swaps, options, credit derivatives, and forward currency contracts to hedge and/or adjust the strategy's exposure to equity, interest rate, currency, and credit risks. Performance data prior to December 31, 2017 represents the strategy managed by the Convertibles team at a prior firm and comprise substantially of all the investment decision makers of that team. The Convertibles team employs a substantially similar investment strategy to manage this Global Convertibles strategy as it did at its prior firm.

#### **Calculation of Performance Returns**

Policies for valuing investments, calculating performance, and preparing GIPS reports are available upon request. The composite returns are reported net of foreign withholding taxes on dividends, interest and capital gains. The composite returns presented represent past performance and is not a reliable indicator of future results, which may vary. A complete list and description of all Lazard composites and pooled funds is available upon request.

#### Fee Schedule

Lazard's standard fee schedule for the Global Convertibles (EUR Hedged) strategy accounts is 0.70% per annum on the first \$50 million, 0.65% on the next \$100 million, 0.60% on the next \$100 million and 0.55% on the balance. (This fee schedule may be presented in non-U.S. local currency equivalents based on prevailing exchange rates.) Unless otherwise noted, actual account fees, inclusive of performance-based fees and VAT (if applicable) are used in the construction of composite net of fee performance. For non-fee paying portfolios and sleeves of funds, net of fee performance has been calculated using the strategy's standard fee schedule. Fund performance in this composite is net of all fees.

#### **Benchmark Information**

The Refinitiv Global Focus Convertible Bond Euro Hedged Index (net interest reinvested), expressed in euros. It reflects the performance of global convertible bonds. The Focus sub-index is an index which is selected to contain balanced issues.

#### **GIPS Compliance and Verification Status**

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	Calendar									
	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013
Lazard Rate of Return (%; Gross of Fees)	-21.15	-0.50	34.44	12.76	-1.88	16.67	6.89	2.26	6.97	17.75
Lazard Rate of Return (%; Net of Fees)	-21.92	-1.58	32.82	11.42	-2.99	15.38	5.77	1.22	5.77	16.51
Benchmark (%; Rate of Return)	-17.84	-1.81	21.49	10.11	-5.45	4.39	0.58	3.60	4.74	12.82
Composite Standard Deviation Gross (3-yr. Ann.)	14.59	11.75	11.62	6.32	7.11	8.06	8.25	7.15	6.32	10.00
Benchmark Standard Deviation (3-yr. Ann.)	11.72	9.83	9.75	5.04	4.78	5.47	5.86	5.43	5.12	6.70
# of Portfolios	2	2	2	2	1	1	1	1	1	1
Composite Dispersion Gross (Asset Wtd. Std. Dev.)	0.04	0.12	0.21	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Composite Assets (EUR Millions)	1826.7	2584.7	2337.4	1233.0	627.4	282.0	97.8	16.3	15.5	22.8
Total Firm Assets (EUR Billions)	158.3	195.3	174.1	183.0	155.0	172.1	159.2	147.4	141.6	117.2

## GI OSSARY

Underlying asset: share in which the convertible bond can be converted

**Convexity of a convertible bond:** second derivative of the price of a convertible bond against the price of the underlying. It is a measure of the relative variation of the delta in response to an incremental change in the price of the underlying. Convexity shows the different cases in which equity exposure increases when share prices go up and decreases when share prices go down.

Repo or repurchase agreement: contract enabling, on one hand, the sale when fully-owned of one (or several) assets by one investor to another and on the other hand a firm and reciprocal engagement of repurchasing the asset(s) at a stated date and price. This type of contract allows the agent to sell the security in exchange for short-term liquidity.

Implied volatility: different from historical volatility because of the past behaviour of the underlying security, implied volatility reflects forecasts on future evolution. In other words, it measures the anticipations of the market regarding future variations of the spot. It is computed using option prices.

**Conversion premium:** represents the extra profit on a share earned when an investor purchases a convertible bond and immediately converts it into equity compared to a direct purchase of the share

**Convexity:** measures the sensitivity of convertible bond price to a change in interest rates. Depending a bond's convexity its price will vary upwards or downwards more or less rapidly responding to changes regarding the maturity of a bond.

**Delta** ( $\Delta$ ): measures the sensitivity of the price of a convertible bond to the price of the underlying equity:

• Example: if the delta equals 0,5 and the underlying equity changes by 2%, then the convertible bond sees its value changed by 1%.

Gamma (y): measures the sensitivity of the convertible price relative to the underlying equity price (convexity).

**Rhô** (p): measures the sensitivity of the value of an option to interest rates.

Theta  $(\Theta)$ : change in the price of a convertible bond for one day change to the number of days to expiry of convertible option.

Vega (V): measures the sensitivity of the value of the option to the volatility of the underlying equity.

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