# Convertible Bonds Sustainable Strategy

**Product Report** 31 December 2019

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Disclaimer

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# Summary

# Strategy

# **Global Convertible Bonds (sustainable companies)**

The fund invests globally in convertible bonds of sustainable companies. Sustainable research is provided by Bank J. Safra Sarasin & Cie AG. The asymmetric risk-/ reward profile combined with credit- and sustainability research analysis offer additional protection to investors.

Active management is intended to achieve outperformance against the Thomson Reuters Global Focus Index, particularly when stock markets are falling. The relevant benchmark performance will be achieved when markets are on the rise.

From May 2009 to March 2011, the sustainable strategy had a more defensive positioning, characterised by a low equity exposure. For this reason, we used the Thomson Reuters Global Focus Investment Grade Index as the benchmark index during this period. The strategy has been managed opportunistically since April 2011, similar to the Thomson Reuters Global Focus Index.

# Performance Summary as of 31.12.2019

Key Figures - EUR	Strategy	Benchmark	Relative
Month to Date Return	1.85%	2.04%	-0.19%
Quarter to Date Return	3.23%	4.46%	-1.23%
Year to Date Return	12.67%	10.11%	2.56%
Return 1 Year	12.67%	10.11%	2.56%
Annualized Return 3 Years	5.13%	2.81%	2.32%
Annualized Return 5 Years	3.65%	2.52%	1.13%
Annualised Return since Inception (15.05.2009)	6.28%	5.86%	0.41%

Strategy Global convertible bonds sustainable EUR hedged, gross

**Benchmark** The Global Convertible Bonds Sustainable Strategy has been implemented relative to the aforementioned Thomson Reuters Index since 1<sup>st</sup> April 2011. From 15 May 2009 to 31 March 2011, it was implemented relative to the Thomson Reuters Global Focus Investment Grade (EUR hedged).

**Important Note** The return difference of the strategy versus benchmark includes not only the active management of the portfolio manager, but also the influence of the sustainability filter.

# **»**Security selection decisive in 2019

# Manager Report



**Stefan Meyer** Lead Portfolio Manager



**Gerrit Bahlo**Portfolio Manager

# **Market Overview**

Global equity and credit markets performed very positively in December. On the other hand, things were rather quiet in interest rate markets. November's positive trend thus continued, further improving what was already a very solid trend for the whole of 2019. It was striking to note the uniform global development both in developed markets and in emerging markets. The reasons for this were the ongoing combination of moderate economic growth and, at the same time, very loose monetary policy. Then there was the partial deal in the trade conflict between the US and China, as well as greater clarity in the UK in relation to Brexit and the newly elected parliament. Currency markets were very quiet, with the US dollar generally trending lower. This lessened the level of stress in many emerging markets and increased the scope for the relevant central banks to cut interest rates or inject liquidity. This had a very positive effect on financial markets in China in particular. The generally stable environment worldwide was also confirmed by various leading indicators. For example, the price of copper rose sharply on the back of strong demand. In addition, various monetary aggregates sent very positive signals, which historically always correlated with better financial markets and also, in the medium term, higher economic growth. However, there were slightly more muted signals from a previously very strong transport sector. Various indices for shipping rates as well as container traffic took a breather, but at a high level. Ongoing euphoric investor sentiment continued to sound a note of caution. Although this is a short-term development and the longer-term expectations for the investment environment remain rather conservative, such a high level of sentiment is problematic.

The global economy is again trending upwards after a lull. In particular, we are seeing a stabilisation in Europe and China. Both fundamental and monetary indicators are improving. Inflation remains low and is therefore not a threat to central banks' very loose monetary policy. Our model's scores for equity markets have slightly increased compared with November, and thus remain well inside positive territory, especially for China and various other emerging markets. The reasons for the improvement were a pick-up in the global money supply as well as a rebound in various economic indicators. Thus, the combination of positive monetary and fundamental factors - which is good for financial markets - remains intact, additionally supported by the easing of tensions in the trade conflict. However, short-term sentiment indicators point towards a high risk of a temporary correction. Credit markets are also being supported by the current monetary and fundamental environment. However, much of this has already been priced in. While the expected return remains positive thanks to the carry, pure price movements are likely to hover in neutral territory. The distinct pick-up in the money supply, along with better economic numbers, is likely to lead to a reflation of the financial system in the medium term, which is what the central banks are seeing to achieve. The fact that the price of gold has been robust for some time already confirms this development. Although the current trend in interest rates in Europe and Japan is still downward (and neutral in the US), a reversal may occur at any time, which is why our positioning is neutral. Momentum in the US dollar has slackened slightly. On the one hand, the euro and the yuan are benefiting from the easing of tensions in the trade conflict; on the other hand, the US central bank is pumping up to USD 60 billion into the money market every month in order to prevent liquidity shortages. Thus, the environment for the US dollar is negative overall.

# **Portfolio**

Financial markets performed much better than expected in 2019. A series of risk factors that investors were apprehensive about at the beginning of the year did not take effect or did so to a lesser extent. These included the global economy sliding into recession, a hard Brexit and a sustained escalation of the trade conflict between the US and China. Unlike in previous cycles, the central banks took early action on this occasion: the US central bank lowered its key rate no fewer than three times, while the European Central Bank relaunched its asset purchase programme. The decisiveness as well as lower interest rates put equity investors in the mood for buying, and convertible bonds accordingly benefited from the higher prices.

The strategy (gross, EUR hedged) launched into a year-end rally last month and closed December with a positive performance in absolute terms. The strategy also generated considerable gains for the year as a whole (+12.7%), and thus beat both the traditional benchmark and the sustainable benchmark index. The main performance driver in December was the defensive utilities sector in Europe, where the convertible bond of French alternative energy producer Neoen jumped in price and topped the relative performance list. The strategy fared very well in 2019; only an unexpectedly strong factor rotation out of momentum and into value stocks slowed relative performance from September onwards. Previous high-performing growth stocks in the (bio)technology sector came under selling pressure, and demand for long-neglected defensive convertibles from the utilities and real estate sectors was suddenly brisk. Over the course of the year the regional overweight in Europe paid off but the underweight in Asia ex-Japan was a detractor. We systematically avoided a whole range of Chinese issuers for sustainability reasons. At sector level, industrials did well due to significant overweights in Spain's Cellnex and the French construction company Vinci. On the other hand, the telecommunications sector and its US benchmark heavyweights Dish Networks and Charter Communications, which we avoided, was the worst performer in relative terms. Overall, despite the various trend reversals, security selection was key to performance in 2019.

Over the course of the year, we significantly increased equity exposure from 35% to 51%. This decision was based on our view that equity markets were likely to continue to rise. We expect a positive economic environment for 2020 as well, from which equity markets should benefit. For that reason, our equity exposure remains overweight versus the benchmark. In terms of credit exposure, our positioning remains much more defensive than the benchmark index.

The new issue pipeline remained very healthy throughout the year and exceeded the USD 100 billion mark, with an above-average amount of sustainable convertible bonds issued as well. The positive equity market environment with ample supply of liquidity from the central banks suggests that issuance will continue at this level.

# **Portfolio**

# **Performance Analysis**

# **Performance**

# Performance (indexed)

The Global Convertible Bonds Sustainable Strategy has been implemented relative to the aforementioned Thomson Reuters Index since 1st April 2011. From 15 May 2009 to 31 March 2011, it was implemented relative to the Thomson Reuters Global Focus Investment Grade (EUR hedged).



# **Strategy**

Global convertible bonds, sustainable, EUR hedged, gross

# Benchmark

15<sup>th</sup> May 2009 until 31<sup>st</sup> March 2011 Thomson Reuters Global Focus Investment Grade (EUR hedged). Since 1<sup>st</sup> April 2011 Thomson Reuters Global Focus (EUR hedged)

Key Figures - EUR	Strategy	Benchmark	Relative
Month to Date Return	1.85%	2.04%	-0.19%
Quarter to Date Return	3.23%	4.46%	-1.23%
Year to Date Return	12.67%	10.11%	2.56%
Return 1 Year	12.67%	10.11%	2.56%
Annualized Return 3 Years	5.13%	2.81%	2.32%
Annualized Return 5 Years	3.65%	2.52%	1.13%
Annualised Return since Inception (15.05.2009)	6.28%	5.86%	0.41%
Volatility 3 Years	4.92%	5.12%	-0.20%
Sharpe Ratio 3 Years	1.11	0.62	0.50
Max Drawdown 3 Years	-8.16%	-9.31%	1.14%

# **Strategy**

Global convertible bonds, sustainable, CHF hedged, gross

# Benchmark

15<sup>th</sup> May 2009 until 31<sup>st</sup> March 2011 Thomson Reuters Global Focus Investment Grade (CHF hedged). Since 1<sup>st</sup> April 2011 Thomson Reuters Global Focus (CHF hedged)

Key Figures - CHF	Strategy	Benchmark	Relative
Month to Date Return	1.78%	2.02%	-0.23%
Quarter to Date Return	3.10%	4.39%	-1.29%
Year to Date Return	12.13%	9.77%	2.37%
Return 1 Year	12.13%	9.77%	2.37%
Annualized Return 3 Years	4.57%	2.47%	2.09%
Annualized Return 5 Years	2.95%	2.07%	0.89%
Annualised Return since Inception (15.05.2009)	5.74%	5.50%	0.24%
Volatility 3 Years	4.93%	5.11%	-0.18%
Sharpe Ratio 3 Years	1.07	0.63	0.45
Max Drawdown 3 Years	-8.41%	-9.56%	1.15%

# Strategy

Global convertible bonds, sustainable, USD hedged, gross

# **Benchmark**

3<sup>rd</sup> November 2009 until 31<sup>st</sup> March 2011 Thomson Reuters Global Focus Investment Grade (USD hedged). Since 1<sup>st</sup> April 2011 Thomson Reuters Global Focus (USD hedged)

Key Figures - USD	Strategy	Benchmark	Relative
Month to Date Return	2.06%	2.23%	-0.17%
Quarter to Date Return	3.85%	5.04%	-1.19%
Year to Date Return	15.74%	13.10%	2.64%
Return 1 Year	15.74%	13.10%	2.64%
Annualized Return 3 Years	7.59%	5.15%	2.44%
Annualized Return 5 Years	5.37%	4.17%	1.20%
Annualised Return since Inception (03.11.2009)	6.23%	5.72%	0.52%
Volatility 3 Years	4.90%	5.11%	-0.21%
Sharpe Ratio 3 Years	1.14	0.62	0.52
Max Drawdown 3 Years	-7.42%	-7.15%	-0.27%

# Strategy

Global convertible bonds, sustainable EUR hedged, CHF hedged, USD hedged, gross

# Benchmark

3<sup>rd</sup> November 2009 until 31<sup>st</sup> March 2011 Thomson Reuters Global Focus Investment Grade (EUR hedged, CHF hedged, USD hedged). Since 1<sup>st</sup> April 2011 Thomson Reuters Global Focus (EUR hedged, CHF hedged, USD hedged)

Key Figures - Calendar Year	2014	2015	2016	2017	2018
EUR Strategy	4.95%	3.92%	-0.96%	7.60%	-4.15%
EUR Benchmark	4.74%	3.60%	0.58%	4.39%	-5.45%
CHF Strategy	4.69%	2.81%	-1.61%	6.93%	-4.65%
CHF Benchmark	4.58%	2.78%	0.15%	3.99%	-5.74%
USD Strategy	4.71%	3.96%	0.31%	9.42%	-1.66%
USD Benchmark	4.73%	3.83%	1.59%	6.00%	-3.01%

# **Contribution and Attribution**

The contribution breakdown shows the extent to which a region or sector contributed to fund or benchmark performance (shown here year-to-date). The performance attribution breakdown highlights the extent to which a region or sector was responsible for out or underperformance versus the benchmark.

In the following three tables, all returns are given in local currency; therefore, changes in exchange rates and the cost of currency hedging are not included. For this reason, the returns are not directly comparable with fund returns or benchmark returns cited elsewhere in this document.

The Brinson Fachler model is used to break down the regional attribution into asset allocation and security selection. The effects of portfolio management decisions are quantified using this attribution model. The regional performance attribution is reflected in the following "Regional Contribution / Attribution (YTD)" table. The "Asset Allocation" column shows the results of the portfolio's different regional weightings, which are based on the top-down and bottom-up analysis, relative to the benchmark. The "Security Selection" column shows the results of the various different returns on individual stocks or sectors within a region relative to the benchmark.

# **Regional Contribution / Attribution (YTD)**

	Return	[%]	Average W	eight [%]	Contribut	tion [%]	Asset		Total Attribution
Region	PF	вм	PF	вм	PF	BM	Allocation [%]		[%]
Europe	12.21	7.45	50	31	5.60	2.47	-0.62	2.16	1.54
North America	27.54	20.11	24	35	6.82	6.86	-0.68	1.66	0.98
Asia	6.58	9.29	9	17	0.32	1.41	0.09	-0.07	0.02
Japan	1.79	2.11	11	13	0.29	0.27	-0.19	0.05	-0.15
Others	33.21	51.57	4	3	1.16	1.35	0.28	-0.65	-0.37
Cash	0.00	0.00	3	0	0.00	0.00	-0.20	0.00	-0.20
Total	14.19	12.37	100	100	14.19	12.37	-1.32	3.15	1.83

<sup>\*</sup>Portfolio returns are local returns within the Global Convertible Bonds Sustainable Strategy. Benchmark returns are local returns within the Thomson Reuters Global Focus Convertible Bond Index. Weights are calculated based on average daily holdings.

Next, the portfolio managers select the most promising securities from the sectors with the best prospects based on our bottom-up and top-down analysis. The resulting performance attribution of each sector is shown in the following "Sector Contribution /Attribution (YTD)" table. The "Asset Allocation" column reflects the results of the assigned portfolio sector weights relative to the benchmark. The "Security Selection" column depicts the results of the different returns achieved by the individual securities within each sector in relation to the benchmark.

The results of the asset allocation and the security selection are consolidated in the "Total" row, which can be different depending on the grouping (by region on the previous page and by sector on this page).

# **Sector Contribution / Attribution (YTD)**

	Return	[%]	Average We	eight [%]	Contribut	tion [%]	Asset		
Sector	PF	вм	PF	вм	PF	BM	Allocation [%]		Attribution [%]
Industrials	15.27	7.54	15	9	2.25	0.64	-0.16	1.26	1.10
Technology	30.16	24.61	20	20	6.09	4.79	0.30	0.56	0.86
Utilities	14.64	0.63	7	6	0.77	0.03	-0.01	0.73	0.72
Consumer Staples	9.34	-3.97	4	2	0.37	-0.14	-0.21	0.65	0.44
Consumer Discretionary	19.21	17.46	16	13	2.87	2.45	0.12	0.08	0.20
Energy	-0.04	5.42	1	4	-0.02	0.22	0.16	0.02	0.18
Financials	6.68	6.06	12	14	0.66	0.91	0.08	-0.14	-0.06
Communications	8.28	11.02	3	14	-0.01	1.48	0.06	-0.27	-0.21
Materials	9.73	11.34	8	9	0.75	1.05	-0.05	-0.20	-0.25
Health Care	6.69	10.58	13	9	0.45	0.91	-0.16	-0.79	-0.94
Cash	0.00	0.00	3	0	0.00	0.00	-0.20	0.00	-0.20
Total	14.19	12.37	100	100	14.19	12.37	-0.06	1.89	1.83

<sup>\*</sup>Portfolio returns are local returns within the Global Convertible Bonds Sustainable Strategy. Benchmark returns are local returns within the Thomson Reuters Global Focus Convertible Bond Index. Weights are calculated based on average daily holdings.

The key driver of the performance of convertible bonds is the performance of the underlying shares. The nature of convertible bond issuance means that the equity exposure characteristics of the asset class will differ from those of the broader equity markets.

The table below shows the performance of regional MSCI equity indices together with the relevant convertible bond 'Parity Index'. The Parity Index is based on the underlying shares of the Thomson Reuters Global Focus Convertible Bond Index, split by region, weighted by the parity of each CB. The parity of a CB represents the value of the underlying shares that would be received by a holder if that CB was converted today. Finally, we show the performance of each regional sub-index within the Thomson Reuters Global Focus Convertible Bond Index, together with the relevant regional weight.

The universe of underlying shares for convertible bonds in any given region is smaller and therefore more concentrated than that represented by the corresponding MSCI regional equity index. Furthermore, the Thomson Reuters 'Focus' family of CB indices exclude those CBs whose underlying shares perform particularly strongly or weakly that the CB features no longer a balanced profile . This further explains why the performance of the relevant regional convertible bond Parity Index may differ materially from the corresponding MSCI regional equity index.

# **CB and Equity Markets Returns (YTD)**

Relevant Region	MSCI TR Index Return	CB Global Focus Parity Return	CB Global Focus Return	CB Global Focus avg. Weights
North America	30.35%	28.20%	20.11%	35.49%
Europe	23.86%	21.07%	7.45%	31.23%
Asia	18.98%	17.91%	9.29%	17.02%
Japan	18.48%	3.06%	2.11%	13.31%
Others	N/A	46.46%	51.57%	2.94%
Total	26.24%	21.40%	12.37%	100%

<sup>\*</sup>All returns are in local currency. The returns of the MSCI TR Index are based on the following regional sub-Indices: MSCI TR Net AC Asia Pacific ex Japan, MSCI TR Net AC Europe, MSCI TR Net North America, MSCI Daily TR Net Japan, MSCI AC World Daily TR Net.

# **Positioning**

# **Securities**

Total Number of Positions	100
Top 10 Positions	Weight
TESLA INC/2%/15.05.2024	2.65%
VEOLIA ENVRNMT/0%/01.01.2025	2.38%
SIKA AG/0.15%/05.06.2025	2.34%
MICROCHIP TECH/1.625%/15.02.2027	2.26%
SYMRISE AG/0.2375%/20.06.2024	2.25%
GEELY SWEDEN FIN (VOLVOB)/0%/19.06.2024	2.20%
CHINA CONCH VEN/0%/05.09.2023	2.12%
SPLUNK INC/1.125%/15.09.2025	2.11%
STMICROELECTRON/0.25%/03.07.2024	1.91%
CELLNEX TELECOM/1.5%/16.01.2026	1.91%

Top 5 Overweights	
	Weight
SYMRISE AG/0.2375%/20.06.2024	1.87%
GEELY SWEDEN FIN (VOLVOB)/0%/19.06.2024	1.87%
VEOLIA ENVRNMT/0%/01.01.2025	1.82%
SONY CORP/0%/30.09.2022	1.76%
CHINA CONCH VEN/0%/05.09.2023	1.74%

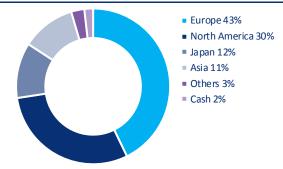
Top 5 Underweights	Weight
AMERICA MOVIL(KPN)/0%/28.05.2020	-2.34%
DISH NETWORK/144A/3.375%/15.08.2026	-2.05%
CHINA EVERGRANDE/4.25%/14.02.2023	-1.51%
PALO ALTO NET/0.75%/01.07.2023	-1.30%
TESLA MOTORS INC/1.25%/01.03.2021	-1.23%

5 Best Positions by Underlyer (YTD)	Absolute		Relative
CELLNEX TELECOM/ST/EUR	1.14%	CELLNEX TELECOM/ST/EUR	0.85%
MICROCHIP TECH/ST/USD	1.04%	VINCI SA/ST/EUR	0.67%
TESLA MOTORS/ST/USD	0.84%	WAYFAIR INC- A/ST/USD	0.46%
VINCI SA/ST/EUR	0.75%	IBERDROLA SA/ST/EUR	0.43%
STMICROELECTRONI/ST/EUR	0.60%	TWILIO INC - A/ST/USD	0.42%

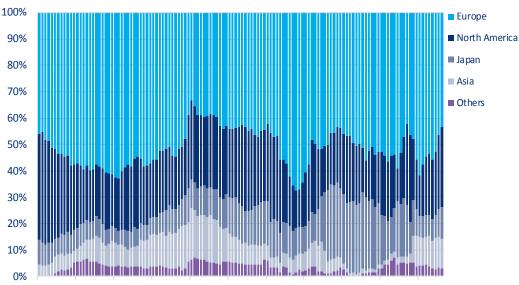
5 Worst Positions by Underlyer (YTD)	Absolute		Relative
BAOZUN INC-ADR/ST/USD	-0.18%	TESLA MOTORS/ST/USD	-0.37%
NUTANIX INC - A/ST/USD	-0.18%	MERCADOLIBRE INC/ST/USD	-0.35%
QIAGEN NV/ST/USD	-0.16%	EXACT SCIENCES/ST/USD	-0.32%
FORTIVE CORP/ST/USD	-0.14%	CHARTER COMMUN-A/ST/USD	-0.30%
CYBERAGENT INC/ST/JPY	-0.12%	SIBANYE GOLD LTD/ST/ZAR	-0.30%

# Regions

Regional Allocation	Weight	Relative
Europe	42.75%	12.52%
North America	29.84%	-10.51%
Japan	11.53%	1.61%
Asia	11.29%	-5.57%
Others	2.76%	0.12%
Cash	1.83%	1.83%
Total	100%	0%

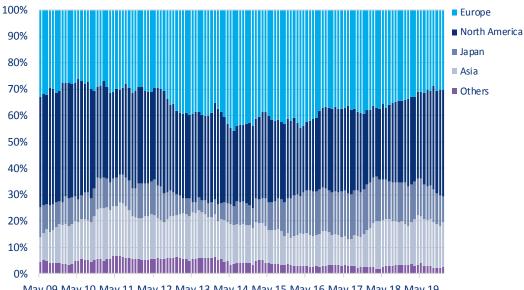


# **Monthly Regional Allocation (Portfolio)**



# ${\sf May \, 09 \, \, May \, 10 \, \, May \, 11 \, \, May \, 12 \, \, May \, 13 \, \, May \, 14 \, \, May \, 15 \, \, May \, 16 \, \, May \, 17 \, \, May \, 18 \, \, May \, 19}$

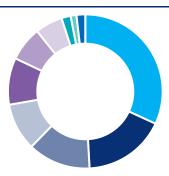
# **Monthly Regional Allocation (Benchmark)**



May 09 May 10 May 11 May 12 May 13 May 14 May 15 May 16 May 17 May 18 May 19

# **Sectors**

Sector Allocation	Weight	Relative
Technology	31.88%	9.15%
Consumer Discretionary	17.24%	2.39%
Industrials	13.16%	4.77%
Financials	9.96%	-3.19%
Health Care	9.82%	2.47%
Materials	7.24%	-1.74%
Utilities	5.74%	1.04%
Communications	1.92%	-13.18%
Consumer Staples	1.22%	-0.19%
Energy	0.00%	-3.36%
Cash	1.83%	1.83%
Total	100%	0%



- Technology 32%
- Consumer Discretionary 17%
- Industrials 13%
- Financials 10%
- Health Care 10%
- Materials 7%
- Utilities 6%
- Communications 2%
- Consumer Staples 1%
- Energy 0%
- Cash 2%

# **Equity Sensitivity**

The **delta** (also known as the hedge ratio) of a convertible bond indicates by how much the absolute value of the convertible (e.g. in EUR, USD or CHF) changes if the underlying equity package rises or falls by one unit (EUR, USD or CHF). For percentage observations and aggregation at the portfolio level, the delta is not suitable. The absolute changes must be converted for percentage observations. This results in the so-called equity exposure.

The **equity sensitivity** (also known as the **equity exposure** or delta %) of a convertible bond portfolio indicates how strongly the portfolio or an individual convertible reacts to equity market fluctuations. The equity sensitivity of a convertible bond is between 0% and 100%. A value of 50% means that the portfolio (or an individual convertible) participates at a rate of 50% in the price movement of the equity market (or of the underlying equity).

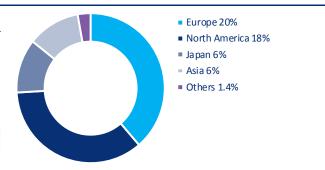
The **beta-adjusted equity sensitivity** also takes into account the beta of the underlying equity. If the underlying equity moves more strongly (high beta) or less strongly (low beta) than the overall market, the equity sensitivity is adjusted accordingly.

Equity Sensitivity	<b>.</b> .	
	Strategy	Benchmark
Delta	64.93%	57.07%
Equity Exposure	50.90%	42.65%
Equity Exposure Beta Adjusted	54.22%	46.17%

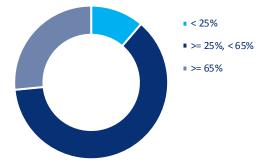
# **Historical Equity Sensitivity (Equity Exposure)**



Equity Exposure Allocation	Weight	Relative
Europe	19.69%	10.47%
North America	18.01%	-4.07%
Japan	5.92%	3.59%
Asia	5.84%	-1.51%
Others	1.43%	-0.24%
Total	50.90%	8.25%



Equity Exposure Allocation	Weight	Relative
< 25%	11.24%	-12.76%
>= 25%, < 65%	62.23%	6.09%
>= 65%	26.53%	6.68%
Total	100%	0%



# **Volatility Sensitivity**

The volatility sensitivity of a convertible bond portfolio is referred to as **vega**. This figure indicates how strongly a convertible rises/falls in percentage terms if the volatility of the equity market changes. The following holds true: If volatility is rising, the value of a convertible increases, and vice versa. This effect offers an added protection if stock exchanges are falling, because in such an environment the volatility usually rises. The volatility sensitivity (vega) can be calculated for individual convertible bonds as well as for the entire portfolio.

The **implied volatility** is the convertible pricing model volatility input that brings the fair value of a convertible into line with its market price. A value of 25% could, on the one hand, be interpreted to mean that the convertible bond investors expect future stock exchange volatility of 25%. On the other hand, the implied volatility is a measure of the price of the call option and is independent from the demand for convertible bonds.

Volatility Sensitivity	Strategy	Benchmark
Vega	0.46%	0.41%
Implied Volatility	30.04%	32.50%

# **Historical Volatility Sensitivity (Vega)**



# **Interest Rate Sensitivity**

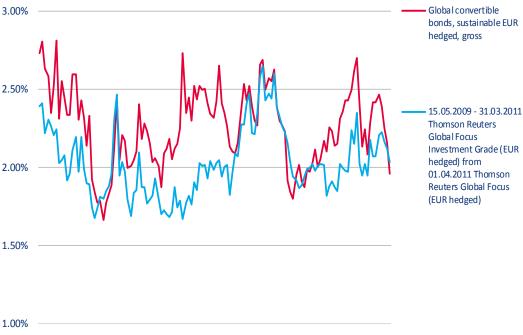
The **modified duration** of a convertible bond expresses the interest rate sensitivity of the bond component. Since this figure does not take into account any possible right to put the bond back to the issuer or the conversion right, however, the figure is misleading in the case of convertible bonds.

The **duration to put or residual maturity** takes into account any possible put feature but continues to ignore the conversion right.

**Effective Duration (Rho)** measures the sensitivity of the convertible price to movements in interest rates. It is expressed as the percentage increase (or decrease) in the convertible price for a one percentage point fall (or rise) in interest rates (in the currency of the convertible). Frequently in the case of convertible bonds, the duration or the residual maturity is mistakenly used as a measure of the interest rate sensitivity. But these figures do not go far enough. On the one hand, put features often exist, and on the other hand, the convertible contains a conversion option, and these have a mitigating influence on the interest rate sensitivity. Due to put features and the conversion option, convertible bonds have extremely modest interest rate sensitivity and are therefore very attractive in times of rising interest rates (inflation).

Interest Rate Sensitivity	Strategy	Benchmark
Duration	4.18%	4.25%
Effective Duration (Rho)	1.96%	2.03%

# **Historical Interest Rate Sensitivity (Effective Duration)**



May 09 May 10 May 11 May 12 May 13 May 14 May 15 May 16 May 17 May 18 May 19

# **Credit Risk**

The **credit spread** is a measure of the estimated creditworthiness by the market.

The **official rating** is given by a rating agency (S&P, Moody's, etc.) for the credit quality of a security.

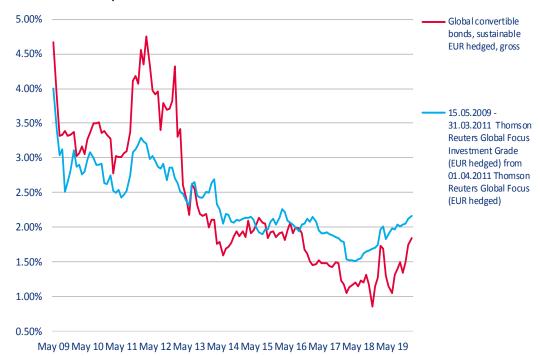
If a convertible bond (or its issuer) does not have an official rating, an **implied rating** can be ascertained. The implied rating is a measure of how the issuer quality is rated by the market. Implied ratings react much more quickly than official ratings to changes in credit quality or new information.

In the case of **official/implied rating**, the official rating is taken into account if available. Otherwise, the implied rating is used.

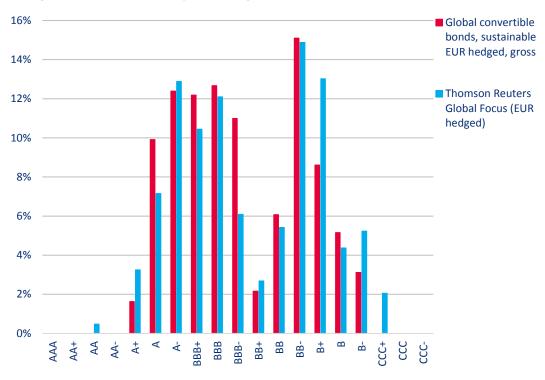
**Omicron** measures the sensitivity of the convertible price to changes in the credit spread. It is expressed as the percentage increase (or decrease) in the convertible price for a one percentage point narrowing (or widening) of the credit spread.

Credit Risk		
	Strategy	Benchmark
Credit Spread	1.85%	2.17%
Implied Rating	BBB-	BBB-
Official Rating else Implied Rating	BBB-	BB+
Omicron	2.32%	2.33%

# **Historical Credit Spread**



# Rating- Allocation (Official/Implied Rating)



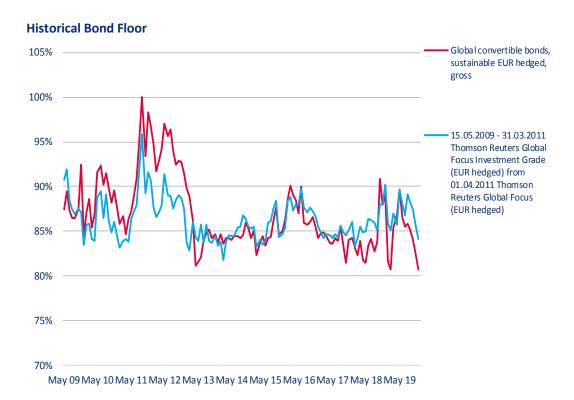
Investment Grade vs High Yield Allocation	Strategy	Benchmark
Investment Grade	59.78%	52.37%
High Yield	40.22%	47.63%
Total	100%	100%

# **Bond Floor**

The **bond floor** represents the present value of all cash flows of a convertible bond and hence ignores the conversion option, calls, puts, etc. The bond floor is thus equivalent to the value of a straight bond of the same issuer with an identical maturity and coupon. The difference between the bond floor and the convertible bond price represents the option value of the convertible bond. The bond floor is expressed here as a percentage of the market value of the convertible bond portion of the portfolio. For example, if the nominal bond floor was 80 and the market value of all bonds was 160, this would indicate a bond floor of 50%. This allows the bond floor of a portfolio to be comparable to that of the convertible bond benchmarks we use.

The bond floor is not a risk measure that charts the price movements of the convertible bond during changing market conditions. For an assessment of the behaviour of the portfolio during market changes, please refer to the scenario analysis.

Bond Floor	Strategy	Benchmark
Bond Floor	80.72%	84.11%



# Scenario Analysis

The table below shows the effect of two market scenarios on the current convertible bond portfolio.

In the "Bull" scenario, a strong rise in the equity markets is assumed. In this positive economic environment, rising interest rates and a simultaneous narrowing of credit spreads as well as volatility can also be expected.

In the "Bear" scenario, a sharp drop in the equity markets is assumed. In this negative economic environment, falling interest rates and a simultaneous widening of credit spreads can be expected. Volatility rises strongly.

In addition, the current coupon income and the time decay of the portfolio on an annualised basis are included in both scenarios.

The input values used in both scenarios are in line with historically plausible constellations. Changes in the convertible bond portfolio are determined by the input variables (equity markets, interest rates, volatility and credit spreads) used in the scenario analysis.

Our model calculates the prices of each individual security in the portfolio corresponding to the changed input values, which provides a more precise result than the simulation with the risk sensitivities ('Greeks'). The results of the individual risk factors relate solely to the change in the factor itself, without any influence from changes in the other factors ('ceteris paribus' rule). The total result, however, takes into account the changes in all factors together and is therefore not additive to the individual factors.

In addition, the current coupon income and the time decay of the portfolio on an annualised basis are included in both scenarios.

Scenario "Bull"	Movement	Portfolio	Scenario "Bear"	Movement	Portfolio
Equity Markets	25.00%	13.74	Equity Markets	-25.00%	-9.91
Credit Spreads	-1.80% HY/ -0.90% IG	2.66	Credit Spreads	1.80% HY/ 0.90% IG	-2.62
Interest Rates	1.00%	-1.91	Interest Rates	-1.00%	2.17
Volatility	-2.00%	-0.91	Volatility	4.00%	1.87
Coupon		0.32	Coupon		0.32
Time Value		-0.35	Time Value		-0.35
Total*		13.28	Total*		-8.96

<sup>\*</sup>The total is not equal to the sum of the individual factors (see explanation above).

>> This strategy invests in convertible bonds of sustainable companies globally and without rating restrictions. The use of an optimal risk-reward profile combined with credit and sustainability analysis offers investor high-quality sustainable investment.

# Investment Strategy | Track Record

# **Investment Objective**

The investment objective of this strategy is to outperform the benchmark Thomson Reuters Global Focus Index¹ over the market cycle by 2% per annum through active management. The investment universe comprises all global convertible bonds exhibiting sufficient liquidity with a focus on the asymmetric area. The issue size should be at least USD 100 million. Additionally, all convertible bond issues require a positive sustainability rating by Bank J. Safra Sarasin. Subject to the restrictions and top-down guidelines, the fund may invest in all convertible bonds.

# **Investment Philosophy**

We aim to produce long-term outperformance versus the benchmark through active management. The defensive qualities of convertible bonds in weak markets are a central element of our investment philosophy.

We believe that this goal is best achieved by finding the most attractive opportunities in the global convertible bond market using both top-down and bottom-up processes to build a portfolio while focusing on securities with a high sustainability rating. The sustainability filter is provided via the sustainability research of Bank J. Safra Sarasin. As our expertise centers on convertible bond management, we hedge currency exposure to deliver pure asset class performance for our clients.

We believe the key performance drivers of our convertible bond strategies to be:

- the momentum of the underlying equities
- the credit quality of the issuers and thus the resilience of the bond floor of the convertibles
- the asymmetry of individual issues

We therefore place particular emphasis on credit research and quantitative trend analysis.

We believe that working as a team delivers better results than could be achieved by any one individual. We have devoted significant resources to our credit research team and our proprietary analytical models. Our rigorous team approach with clearly defined responsibilities provides us with a clear view on each security in the investment universe.

As a result, we are well positioned to identify the best potential opportunities that the market offers at any given time. In applying our broad convertible bond market expertise, we are able to deliver exceptional investment solutions to our clients.

<sup>&</sup>lt;sup>1</sup> Reference index: Thomson Reuters Global Focus Custom Sustainable Convertible Index, index applying sustainability filter of Bank J. Safra Sarasin

# Four Fisch Convertible Bond Strategies

# **Description of the strategies**

Fisch Asset Management offers a range of investment strategies in the field of convertible bonds. The core strategies comprise the Defensive, the Opportunistic and the Dynamic strategy. Additionally, Fisch offers a strategy focused on sustainable investment.

The **defensive strategy** invests globally in convertible bonds of a high to very high credit quality. The maximum high yield allocation is 10%. The focus is on convertible bonds that exhibit high convexity, in order to exploit the full asymmetric return profile of the asset class. The objective is to outperform the Thomson Reuters Global Focus Investment Grade Convertible Bond Index through active management. Particular emphasis is placed upon downside protection in times of equity market weakness.

The **opportunistic strategy** invests globally in convertible bonds. The focus is on convertible bonds that exhibit high convexity, in order to exploit the full asymmetric return profile of the asset class. There are no restrictions on credit quality. The objective is to outperform the Thomson Reuters Global Focus Convertible Bond Index through active management. Particular emphasis is placed upon downside protection in times of equity market weakness.

The **dynamic strategy** invests globally in convertible bonds, including those with high convexity as well as equity-like or bond-like profiles. This means that performance drivers across the whole spectrum of the asset class can be utilised in the portfolio. This allows for enhanced participation in rising equity markets without sacrificing the downside protection typically offered by convertible bonds during weaker markets. The objective is to outperform the Thomson Reuters Global Vanilla Convertible Bond Index through active management.

The **sustainable strategy** invests globally in convertible bonds issued by companies that are classified as sustainable. The sustainability approach is based on a combination of exclusion criteria and best-in-class/best-of-class criteria. The focus is on convertible bonds that exhibit high convexity, in order to exploit the full asymmetric return profile of the asset class. The objective is to outperform the Thomson Reuters Global Focus Convertible Bond Index through active management. Particular emphasis is placed upon downside protection in times of equity market weakness.

# Sustainability-Research

# **Principle**

The sustainable investment research of Bank J. Safra Sarasin is based on exclusion criteria as well as a combination of best-of-class (industry rating) and best-in-class (company rating) approaches. The sustainability filter should minimise portfolio risks by leading to investment in convertible bonds of companies with less exposure to environmental, social and governance risks than that of other companies. These main risk categories comprise the following aspects:

- Environmental risks: regulatory changes, accidents, pricing of resources, environmental liabilities, protests, etc.
- Social risks: labour conflicts, supply chain issues, corruption, product liability, loss of reputation, etc.
- Governance risks: sustainability of business model, board culture, remuneration, communication with shareholders, etc.

## **Process**

The sustainability analysis of investments consists of three elements: exclusion criteria, industry rating and company rating.

In the initial step, the companies are screened to see if they satisfy the defined exclusion criteria. Companies are excluded from the investment universe if they generate more than five percent of their sales from one of the following activities:

- Nuclear power
- Coal, Oil Sands and Shale Oil & Gas
- Genetically modified organisms (agriculture and medicine)
- Defense & Armaments
- Tobacco
- Adult entertainment
- Violation of human rights

The remaining companies are then analysed to determine their sustainability. First of all, this involves an assessment of the industry in which the company operates (industry rating). The industry universe comprises 47 different industries, with each assigned a rating from low to high (best-of-class, x axis of the Sarasin Sustainability Matrix, diagram 9). There are five rating levels in total. Each industry is analysed in terms of its contribution to environmental and social risks. The main benchmark here is the industry's environmental relevance (e.g. airlines consume a lot of energy, whereas financial service providers consume far less) and social relevance. The assessment is based on the environmental and social impact across the lifecycle of products and services.

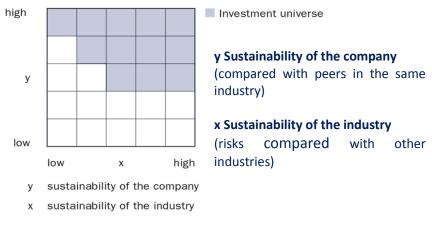
Secondly, the company is evaluated within its industry (company rating). The effective performance of each company is analysed relative to its industry. This is based on a lifecycle approach which examines the environmental aspects of pre-production sourcing, production processes, products and services as well as the environmental strategy / policy and the environmental management systems. The assessment of social considerations is based on a stakeholder approach and examines the company's relationship with its suppliers, investors and the public sector as well as with its employees, clients and competitors.

Depending on the industry, the environmental, social and governance evaluation criteria are weighted differently. The company is also assigned a rating from low to high across five levels, and this is used to rank the company within its peer group (best-in-class, y axis of the Sarasin Sustainability Matrix, diagram 9).

The industry and company ratings for each firm are subsequently combined in a matrix. This results either in a rating of 'sustainable' (shaded upper area) or 'unsustainable'. The lower the industry rating, the higher the company rating needs to be in order for the company to be rated as sustainable.

The information needed to perform this analysis is gathered by Bank J. Safra Sarasin from the following main sources: sustainability reports, company visits and conference calls. Additional information is obtained from external ESG data providers, the Factiva media database, conferences, trade literature, specialised institutions and NGOs.

# **Sarasin Sustainability-Matrix**

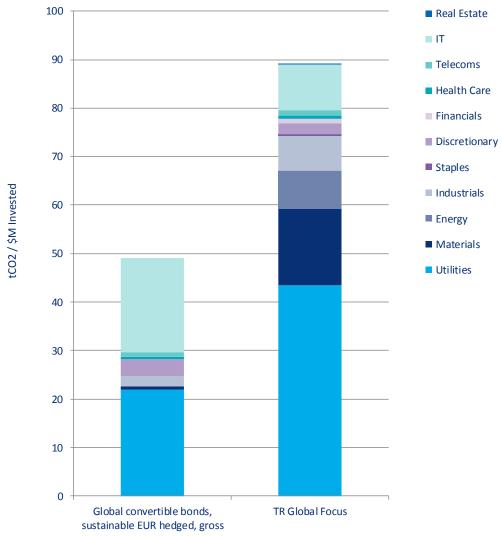


Source J. Safra Sarasin, Sarasin Sustainability-Matrix

# **Carbon Footprint**

# **Carbon Footprinting Methodology**

We calculate the portfolio's carbon footprint based on the investors claim on each company's assets, and allocated carbon emissions reported from those assets in 2016 to the invested capital.



Quelle Bank J. Safra Sarasin, MSCI CarbonMetrics, December 2019

# **Carbon Footprint**

The portfolio has a significantly lower carbon exposure than the TR Global Focus. This is mainly due to the underweighter allocations in Utilities, Energy and Industrial Sectors.



The pooled Global Convertible Bonds Sustainable Strategy has been awarded the FNG Label. Investment funds with the FNG Label meet the quality standard developed by Forum Nachhaltige Geldanlagen e. V. (FNG) for sustainable investments in the German-speaking countries. The fund has received one out of a possible three stars for its particularly ambitious and comprehensive sustainability strategy.

# Track Record of Reference Index with Sustainability Filter

# Performance (indexed)



Dec 10 Dec 11 Dec 12 Dec 13 Dec 14 Dec 15 Dec 16 Dec 17 Dec 18 Dec 19

# FISCH Convertible Global Track Record Sustainable (EUR hedged), gross Composite. Inception as of 15 05 2009 -

Sustainable

Composite. Incept as of 15.05.2009 -Indexed from 01.01.2011

# Reference index

Thomson Reuters Global Focus Custom Sustainable Convertible Index (EUR hedged), index applying sustainability filter of Bank J. Safra Sarasin - Indexed from 01.01.2011

# Benchmark

Thomson Reuters Global Focus (EUR hedged) - Indexed from 01.01.2011

Key Figures - EUR Hedged	Strategy	Reference index	Benchmark	Relative*
Month to Date Return	1.85%	2.05%	2.04%	0.01%
Quarter to Date Return	3.23%	4.59%	4.46%	0.13%
Year to Date Return	12.67%	11.95%	10.11%	1.84%
Return 1 Year	12.67%	11.95%	10.11%	1.84%
Annualized Return 3 Years	5.13%	4.17%	2.81%	1.36%
Annualized Return 5 Years	3.65%	3.18%	2.52%	0.66%
Annualised Return since Inception (01.01.2011)	5.05%	5.19%	4.00%	1.19%
Volatility 3 Years	4.92%	4.97%	5.12%	-0.14%
Sharpe Ratio 3 Years	1.11	0.91	0.62	0.29

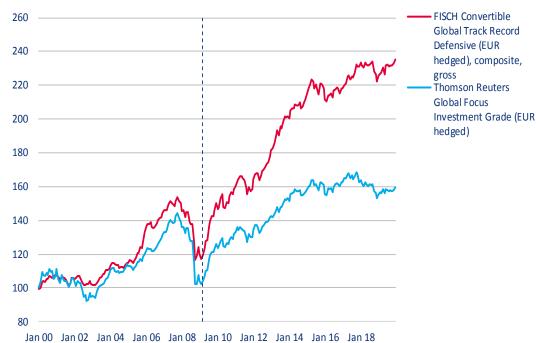
The sustainable investment universe (TR Global Focus Custom Sustainable CB Index (EUR hedged)) has been considered representative since 2011, as over 40 percent of the securities have been part of the TR Global Focus universe since that time. \*Relative Perfomance is between the Reference Index and Benchmark.

# Track Record of the Defensive Strategy

# Performance (indexed)

Fisch has managed the Global Defensive strategy since 01.01.2000.

The Global Defensive strategy features a clear focus on downside protection and has been managed relative to the Thomson Reuters Global Focus IG Index since 31.03.2009.



# **Defensive**FISCH Convertible Global Track Record Devensive (EUR hedged), gross

# **Benchmark** Thomson Reuters

Composite

Thomson Reuters Global Focus (EUR hedged)

Key Figures - EUR Hedged	Defensive	Benchmark	Relative
Month to Date Return	1.24%	1.09%	0.16%
Quarter to Date Return	1.56%	1.14%	0.42%
Year to Date Return	6.08%	4.29%	1.79%
Return 1 Year	6.08%	4.29%	1.79%
Annualized Return 3 Years	2.55%	-0.61%	3.16%
Annualized Return 5 Years	2.14%	0.42%	1.73%
Annualized Return 10 Years	4.60%	2.42%	2.17%
Annualised Return since Inception (01.01.2000)	4.37%	2.36%	2.01%
Volatility 3 Years	3.74%	4.14%	-0.40%
Sharpe Ratio 3 Years	0.77	-0.07	0.84
		and the same of th	and the second second

**Note:** Before 31.03.2009 the Global Defensive strategy was managed benchmark agnostic without the specific focus on downside protection.

# Track Record of the Opportunistic Strategy

# Performance (indexed)

Fisch has managed the Global Opportunistic strategy since 01.03.2003.

The Global Opportunistic strategy features a clear focus on downside protection and has been managed relative to the Thomson Reuters Global Focus Index since 01.02.2010.



# Opportunistic FISCH Convertible Global Track Record Opportunistic (EUR hedged), gross Composite

# Benchmark

Thomson Reuters Global Focus (EUR hedged)

Key Figures - EUR Hedged	Opportunistic	Benchmark	Relative
Month to Date Return	2.21%	2.04%	0.16%
Quarter to Date Return	3.86%	4.46%	-0.60%
Year to Date Return	9.69%	10.11%	-0.42%
Return 1 Year	9.69%	10.11%	-0.42%
Annualized Return 3 Years	4.01%	2.81%	1.19%
Annualized Return 5 Years	3.01%	2.52%	0.49%
Annualised Return since Inception (01.03.2003)	5.74%	4.82%	0.93%
Volatility 3 Years	4.84%	5.12%	-0.28%
Sharpe Ratio 3 Years	0.90	0.62	0.28

**Note:** Before 01.02.2010 the Global Opportunistic strategy was managed relative to the Thomson Reuters Global Focus IG Index without the specific focus on downside protection.

# Track Record of the Sustainable Strategy

# Performance (indexed)



# Sustainable

FISCH Convertible Global Track Record Sustainable (EUR hedged), gross Composite

# **Benchmark**

15.05.2009 -31.03.2011 Thomson Reuters Global Focus Investment Grade (EUR hedged) from 01.04.2011 Thomson Reuters Global Focus (EUR hedged)

Key Figures - EUR Hedged	6	B	Balari -
, ,	Sustainable	Benchmark	Relative
Month to Date Return	1.85%	2.04%	-0.19%
Quarter to Date Return	3.23%	4.46%	-1.23%
Year to Date Return	12.67%	10.11%	2.56%
Return 1 Year	12.67%	10.11%	2.56%
Annualized Return 3 Years	5.13%	2.81%	2.32%
Annualized Return 5 Years	3.65%	2.52%	1.13%
Annualised Return since Inception (15.05.2009)	6.28%	5.86%	0.41%
Volatility 3 Years	4.92%	5.12%	-0.20%
Sharpe Ratio 3 Years	1.11	0.62	0.50

# Track Record of the Dynamic Strategy

# Performance (indexed)



**Strategy**Global convertible bonds, dynamic USD hedged, gross

# Benchmark Thomson Reuters Global Vanilla USD hedged

Key Figures - USD Hedged	Dynamic	Benchmark	Relative
Month to Date Return	2.38%	1.86%	0.53%
Quarter to Date Return	4.89%	5.33%	-0.44%
Year to Date Return	15.66%	16.04%	-0.38%
Return 1 Year	15.66%	16.04%	-0.38%
Return since Inception (31.05.2018)	10.09%	10.72%	-0.62%
Volatility 1 Year	6.05%	6.74%	-0.69%
Sharpe Ratio 1 Year	2.19	2.02	0.17

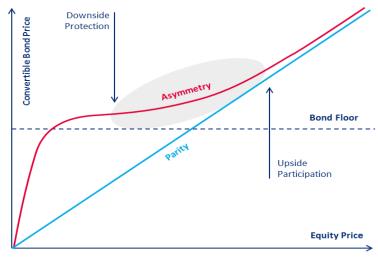
»Convertible bonds have shown very attractive returns relative to the bond and equity markets, together with a significantly lower volatility than equities.

# Convertible Bond Market

# Characteristics of Convertible Bonds

A convertible bond is a combination of a bond (=debt security) and a conversion right (=call option) into a fixed number of shares. This option provides asymmetric participation in share price movements. Rising share prices have a stronger impact on the price trend of a convertible than to falling share prices because the bond floor limits the decline in the convertible bond's value. The asymmetry of a convertible is at its peak in the hybrid area (a delta of 0.4 to 0.6).

# **Asymmetry**



# Source Fisch Asset Management

# Advantages of Convertible Bonds

# **Automatic Timing Effects**

The equity exposure of a convertible adapts automatically to changes in share price. Exposure increases as share prices rise and declines as share prices fall, which has an automatic risk-reducing effect. Through this asymmetry, the convertible bond becomes more equity-like as share prices rise and provides downside protection as share prices fall. This protection stems from the fact that the bond will be repaid at 100% at maturity, assuming there is no default.

# **Risk Premiums**

An investor who buys a convertible bond simultaneously acquires four special risk premiums that promise above-average returns in the medium term: a liquidity premium (a convertible is often less liquid than a straight bond and a separate call option), a premium due to the long maturity of the call option, a credit risk premium on the option and a growth premium since convertibles are often issued by relatively small companies from growth industries. Given that a convertible bond combines all these risk premiums in one instrument, investors usually receive a package discount (because of the above-mentioned liquidity premium).

# Advantages in Special Market Situations

# **Protection during Rising Interest Rates**

In times of rising interest rates, especially due to positive economic prospects, convertible bonds have the advantage that they lose less value than straight bonds or can even manage to produce positive returns. This is attributable to the generally shorter duration, to the value of the conversion right and to the investor's implied put option on the bond component at conversion (exotic bond put).

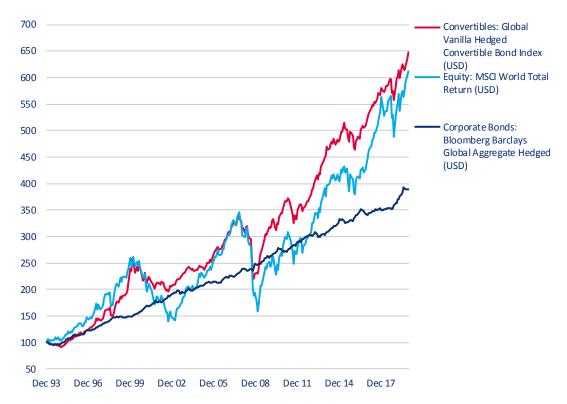
# Protection in falling equity markets (volatility effects)

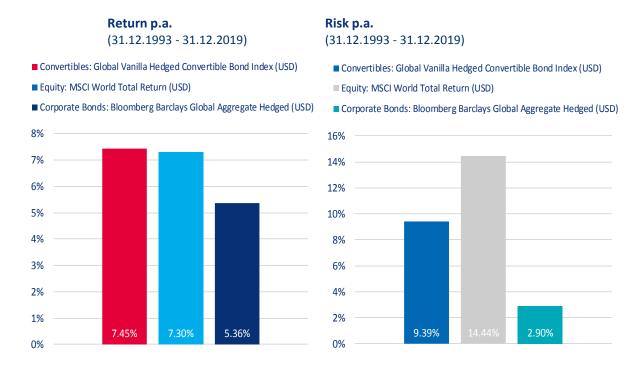
When share prices fall sharply, market volatility generally rises significantly. The conversion right corresponds to a call option, which increases in value in response to market volatility. Through this negative correlation of equity markets and volatility, convertible bonds offer an additional reduction of downside risk in phases of market stress.

# Historical performance Comparison

# Performance Chart (indexed)

(31.12.1993 - 31.12.2019)





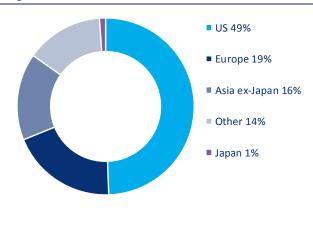
Since the inception of the relevant indices (1993), convertible bonds have demonstrated very attractive returns relative to bond and equity markets, plus significantly lower volatility than equities.

# Convertible Bond Market

The size of the convertible bond universe is approximately USD 500 billion, and convertibles have an average credit rating of about BB+. Most convertible bonds are issued in the USA and Europe. Issuers are very frequently from growth industries. By offering investors a conversion right, the issuers lower the required interest payments on a bond.

# **Issuing Activity**

Regional as of 31.12.2019



# Annual convertible bonds issuance in USD bn

Annual col	nvertible	e bonas	issuan	ce in U	חמ שפ	
Year	USA	Europe	Asia ex- Japan	Japan	Others	Total
1999	41.0	35.0	4.3	9.0	4.7	94.1
2000	67.3	33.8	6.8	5.1	10.0	123.0
2001	101.9	48.4	8.8	4.4	2.0	165.5
2002	55.9	23.7	11.2	7.9	2.1	100.8
2003	96.1	50.8	17.0	12.6	3.6	180.1
2004	50.7	19.9	22.1	18.3	5.8	116.9
2005	44.3	18.5	13.3	4.7	3.8	84.5
2006	74.9	22.9	18.5	13.9	6.9	137.0
2007	102.3	41.4	33.9	10.6	14.8	203.0
2008	69.3	18.5	11.2	8.9	6.1	114.0
2009	38.5	38.3	12.9	4.8	9.5	104.1
2010	37.5	21.3	26.6	4.8	13.1	103.4
2011	25.3	15.5	20.4	4.5	6.9	72.6
2012	23.0	21.5	7.4	3.7	5.9	61.5
2013	46.1	29.5	9.6	6.9	4.3	96.5
2014	49.0	26.6	9.3	8.8	4.1	97.8
2015	35.4	23.1	7.9	7.7	8.0	82.0
2016	36.3	27.7	7.3	4.3	2.2	77.9
2017	41.2	23.6	24.5	6.6	4.5	100.4
2018	47.5	14.6	19.4	5.8	9.9	97.3
2019	54.2	21.3	17.4	1.2	15.5	109.5

Source Thomson Reuters, December 2019

>> Transparency, open communication, entrepreneurial spirit and mutual respect are the principles that define our corporate culture, and which we put into practice every day. These are key factors for our long-term performance as an asset manager, and hence for the success of our investors.

# Fisch Asset Management

# **Brief Profile**



**Kurt Fisch** Founder

Fisch Asset Management is an asset manager specialising in select investment strategies. It offers convertible bond, corporate bond and absolute return solutions. Its objective is to create added value for long-term investors through active management. The company's core strength lies in its long experience in the fields of credit and momentum.

Founded in Zurich in 1994 by two brothers, Kurt Fisch and Dr Pius Fisch, Fisch Asset Management has made a name for itself as an independent asset manager and as a global leader in convertible bonds.



Fisch Asset Management has recorded a strong rise in assets under management in the past years. As of 31.12.2019 the assets under management amount to CHF 10.63 bn.



**Dr. Pius Fisch** Founder

# Our offering

Actively managed mutual fund and segregated account solutions in three asset classes:

# Convertible bonds

(since 1994)

We manage four different global strategies (Defensive, Opportunistic, Dynamic and Sustainable) covering the entire spectrum with a range of risk profiles.

# **Corporate bonds** (since 2006)

We manage five strategies (Global High Yield, Global Corporates, Emerging Market Corporates Defensive, **Emerging Market Corporates** Opportunistic and Bond CHF Investment Grade).

# Absolute Return (since 2009)

We manage two strategies (Absolute Return Fixed Income and Absolute Return Multi Asset).

# **Investment Team**

At Fisch investment Industry experience experience Research Responsibility  Portfolio Management Convertible Bonds Stephanie Zwick Head Convertible Bonds, Senior PM  Dr. Klaus Göggelmann Senior PM/Analyst 2007 20 35 North America, Financials, Utilities Ute Heyward Senior PM/Analyst 2011 13 17 North America, Communications, Roland Hotz Senior PM 2001 18 42 - Stefan Meyer Senior PM/Analyst 2018 6 8 Europe, Consumer Disc. & Staples	Investment Team			Years of		
Portfolio Management Convertible Bonds   2010   9   16			At Fisch		Industry	=
Stephanie Zwick		Function	since	experience	experience	Research Responsibility
Senior PM	Portfolio Management	Convertible Bonds				
Dr. Klaus Göggelmann   Senlor PM/Analyst   2007   20   35   North America, Financials, Utilitie (Let Heyward   Senlor PM/Analyst   2011   13   17   North America, Communications, Noland Not2   Senlor PM   2001   18   42	Stephanie Zwick		2010	9	16	-
Roland Horz   Senior PM   2001   18   42   - Stefan Meyer   Senior PM   2008   25   25   Asia, Information Technology Stefan Meyer   Senior PM   2018   6   8   Europe, Consumer Disc. & Staplet   2015   4   8   Japan, Industrials, Materials, Vield Portfolio Management   2015   4   8   Japan, Industrials, Materials, Vield Portfolio Management   2015   4   8   Japan, Industrials, Materials, Vield Portfolio Management   2014   19   27   Emerging Markets   2016   19   27   Emerging Markets   2016   20   20   20   20   20   20   20   2	Dr. Klaus Göggelmann	Senior PM/Analyst	2007	20	35	North America, Financials, Utilities
Stefan Meyer         Senior PM/Analyst         208         25         25         Asia, Information Technology           Gerrit Bahlo         PM/Analyst         2018         6         8         Europe, Consumer Disc. & Staples           Gerrit Bahlo         PM/Analyst         2015         4         8         Japan, Industrials, Materials, Yield           Portfolio Management Corporate Bonds         Wern Corporate Bonds, Senior PM/Analyst         2018         19         27         Emerging Markets           Incodore Holland         Senior PM/Analyst         2018         12         12         Emerging Markets           Peter Jeggli         Senior PM/Analyst         2005         32         32         North America, Europe (HY)           Vicyle Kloc         Senior PM/Analyst         2016         19         19         North America, Europe (HY)           Oliver Reinbard         Senior PM/Analyst         2013         11         18         North America, Europe (IG)           Waria Stähel         PM/Analyst         2018         8         14         North America, Europe (IG)           Sergio Coviello         PM/Analyst         2018         8         14         North America, Europe (IG)           Sergio Coviello         PM/Analyst         2018         14         14		·	2011	13	17	North America, Communications, Healthcare
Servite Bablo	Roland Hotz	Senior PM	2001	18	42	-
Name		Senior PM/Analyst		25	25	Asia, Information Technology
Portfolio Management Corporate Bonds	Gerrit Bahlo	PM/Analyst	2018	6	8	Europe, Consumer Disc. & Staples, Energy
Meno Stroemer	Leonardo Spangaro	PM/Analyst	2015	4	8	Japan, Industrials, Materials, Yield Monitor
Head Corporate Bonds,	Portfolio Management	Corporate Bonds				
Peter Jeggli         Senior PM/Analyst         2005         32         32         North America, Europe (HY)           Kyle Kloc         Senior PM/Analyst         2016         19         19         North America, Europe (HY)           Oliver Reinhard         Senior PM/Analyst         2018         8         14         North America, Europe (HY)           Maria Stäheli         PM/Analyst         2018         8         14         North America, Europe (HG)           Sergio Covielto         PM/Analyst         2018         8         14         North America, Europe (HY)           Portfolio Management Absolute Return         2012         4         7         Global           Portfolio Management Absolute Return         2005         14         14         Asset Allocation           Robert Koch         Senior PM         2016         12         12         Asset Allocation           Vlad Balas         PM         2010         9         11         Asset Allocation           Dr. Divier Schmid         Senior PM         2012         7         Asset Allocation           Dr. Patrick Wirth         Senior PM         2012         14         14         Trends           Biglig Sakarya         Senior Poduct Specialist         1996         30	Meno Stroemer	Head Corporate Bonds,	2014	19	27	Emerging Markets
Kyle Kloc         Senior PM/Analyst         2016         19         19         North America, Europe (HY)           Olliver Reinhard         Senior PM/Analyst         2013         11         18         North America, Europe (IG)           Maria Stähell         PM/Analyst         2012         4         7         Global           Portfolio Management Absolute Return           Reto Baumgartner         Head Absolute Return,         2005         14         14         Asset Allocation           Robert Koch         Senior PM         2016         12         12         Asset Allocation           Vlad Balas         PM         2010         9         11         Asset Allocation           Dzemo Fazli         PM         2012         7         7         Asset Allocation           Dzemo Fazli         PM         2012         7         7         Asset Allocation           Dz. Olivier Schmid         Senior PM         2015         14         14         Trends           Bilgi Sakarya         Senior Product Specialist         1996         30         32         Trends           Bilgi Sakarya         Senior Product Specialist         1996         35         41         Asset Allocation           Kurt Fisch <td>Theodore Holland</td> <td>Senior PM/Analyst</td> <td>2018</td> <td>12</td> <td>12</td> <td>Emerging Markets</td>	Theodore Holland	Senior PM/Analyst	2018	12	12	Emerging Markets
Diver Reinhard	Peter Jeggli	Senior PM/Analyst	2005	32	32	North America, Europe (HY)
Maria Stäheli         PM/Analyst         2018         8         14         North America, Europe (IG)           Sergio Coviello         PM/Analyst         2012         4         7         Global           Portfolio Management Absolute Return           Portfolio Management Absolute Return,         2005         14         14         Asset Allocation           Senior PM         2016         12         12         Asset Allocation           Vlad Balas         PM         2010         9         11         Asset Allocation           Dzemo Fazli         PM         2012         7         7         Asset Allocation           Dr. Olivier Schmid         Senior PM         2012         14         14         Trends           Dr. Patrick Wirth         Senior PM         2012         14         14         Trends           Bilgi Sakarya         Senior Product Specialist         1996         30         32         Trends           Investment Office         Senior Product Specialist         1996         30         32         Trends           Rotter Fisch         Founder         1994         35         41         Asset Allocation           Marco Müller         Senior Analyst         2017	Kyle Kloc	Senior PM/Analyst	2016	19	19	North America, Europe (HY)
Sergio Coviello	Oliver Reinhard	Senior PM/Analyst	2013	11	18	North America, Europe (IG)
Portfolio Management Absolute Return   Reto Baumgartner   Head Absolute Return   Senior PM	Maria Stäheli	PM/Analyst	2018	8	14	North America, Europe (IG)
Reto Baumgartner	Sergio Coviello	PM/Analyst	2012	4	7	Global
Senior PM   Senior PM   2016   12   12   Asset Allocation	Portfolio Management	Absolute Return				
Robert Koch   Senior PM   2016   12   12   Asset Allocation	Reto Baumgartner		2005	14	14	Asset Allocation
Valad Balas	Robert Koch		2016	12	12	Asset Allocation
Or. Olivier Schmid         Senior PM         2012         14         14         Trends           Dr. Patrick Wirth         Senior PPM         2015         14         21         Trends           Bilgi Sakarya         Senior Product Specialist         1996         30         32         Trends           Investment Office           Beat Thoma         CIO         2000         27         34         Asset Allocation           Kurt Fisch         Founder         1994         35         41         Asset Allocation           Marco Müller         Senior Analyst         2007         22         26         Quantitative Analysis           Credit Research Fisch           Atish Suchak         Senior Analyst         2017         18         18         High Yield (DM)           High Adame         Senior Analyst         2016         13         14         High Yield (DM)           Nissant Naganathi         Analyst         2013         1         6         High Yield (DM)           Nissant Naganathi         Analyst         2013         1         6         High Yield (DM)           Nissant Naganathi         Analyst         2019         12		PM		9		
Or. Patrick Wirth         Senior PM         2015         14         21         Trends           Bilgi Sakarya         Senior Product Specialist         1996         30         32         Trends           Investment Office           Beat Thoma         CIO         2000         27         34         Asset Allocation           Warco Müller         Senior Analyst         2007         22         26         Quantitative Analysis           Credit Research Fisch           Atish Suchak         Senior Analyst         2017         18         18         High Yield (DM)           Missant Naganathi         Analyst         2016         13         14         High Yield (DM)           Magashlin Chetty         Senior Analyst         2013         1         6         High Yield (DM)           Magashlin Chetty         Senior Analyst         2019         12         16         Asia           Daniela Savoia         Analyst         2018         6         8         Latin America           Credit Research Independent Credit View (I-CV)           Daniel Pfister         CEO I-CV,         2005         32         32         Credit Analysis	Dzemo Fazli	PM	2012	7	7	Asset Allocation
Bilgi Sakarya Senior Product Specialist 1996 30 32 Trends  Investment Office  Beat Thoma CIO 2000 27 34 Asset Allocation  Kurt Fisch Founder 1994 35 41 Asset Allocation  Marco Müller Senior Analyst 2007 22 26 Quantitative Analysis  Credit Research Fisch  Atish Suchak Senior Analyst 2017 18 18 High Yield (DM)  Nissant Naganathi Analyst 2013 1 6 High Yield (DM)  Magashlin Chetty Senior Analyst 2019 12 16 Asia  Daniela Savoia Analyst 2018 6 8 Latin America  Credit Research Independent Credit View (I-CV)  Daniel Pfister CEO I-CV, 2005 32 32 Credit Analysis  Gabriele Baur Senior Analyst 2016 25 25 Credit Analysis  Christian Fischer Senior Analyst 2007 12 19 Credit Analysis  Christian Fischer Senior Analyst 2009 19 19 Credit Analysis  Dr. Kurt Hess Senior Analyst 2019 33 33 37 Credit Analysis  Thomas Isler Senior Analyst 2019 39 28 28 Credit Analysis  Thomas Isler Senior Analyst 2019 39 Credit Analysis  Thomas Isler Senior Analyst 2010 7 9 Credit Analysis  Robin Schmidli Senior Analyst 2010 7 9 Credit Analysis  Robin Schmidli Senior Analyst 2010 7 9 Credit Analysis  Robin Schmidli Senior Analyst 2010 7 9 Credit Analysis  Robin Schmidli Senior Analyst 2010 7 9 Credit Analysis  Guido Versondert Senior Analyst 2012 10 10 Credit Analysis	Dr. Olivier Schmid	Senior PM	2012	14	14	Trends
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Credit Research Independent Credit View (I-CV)  Daniel Pfister  CEO I-CV, Senior Analyst  Gabriele Baur  Senior Analyst  Michael Dawson-Kropf Senior Analyst  Christian Fischer Senior Analyst  Senior Analyst  2007  12  19  Credit Analysis  Christian Fischer Senior Analyst  2007  12  19  Credit Analysis  René Hermann Senior Analyst  2009  19  19  Credit Analysis  Dr. Kurt Hess Senior Analyst  2009  28  28  Credit Analysis  Thomas Isler Senior Analyst  2012  33  33  Credit Analysis  Fabian Keller Senior Analyst  2014  15  Credit Analysis  Marc Meili Senior Analyst  2010  7  9  Credit Analysis	,	·				
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Patrick Kunz Analyst 2018 1 1 Credit Analysis		•				·

Investment Professionals		Average	/ears	
Overview			Investment	Industry
	Count	At Fisch	experience	experience
PMs	8	9	12	17
PM/Analysts	12	6	14	19
Analysts	21	8	18	20
Product Specialists	1	23	30	32
Total	42	8	16	19

# The Investment Team for Convertible Bonds



Stephanie Zwick, Head of Convertible Bonds, Senior Portfolio Manager, CFA (9 years of investment experience)
With Fisch Asset Management since 2010

Research responsibility: -

**Portfolio responsibility:** Lead Portfolio Manager of FISCH Convertible Global Opportunistic Fund and mandate portfolios



Gerrit Bahlo, Portfolio Manager, CFA (6 years of investment experience)

With Fisch Asset Management since 2018

Research responsibility: Security analysis focused on Europe /

Consumer Disc. & Staples

**Portfolio responsibility:** Lead Portfolio Manager of mandate portfolios, Portfolio Manager of FISCH Convertible Global Defensive Fund and FISCH Convertible Global Sustainable Fund



Dr. Klaus Göggelmann, Senior Portfolio Manager, CFA (20 years of investment experience)

With Fisch Asset Management since 2007

**Research responsibility:** Member of Investment Committee, security analysis focused on North America / Financials

Postfolio recognibility Load Doutfolio Manage

**Portfolio responsibility:** Lead Portfolio Manager of FISCH Convertible Global Defensive Fund, FISCH Bond Global CHF Fund and mandate portfolios



Ute Heyward, Senior Portfolio Manager, CAIA (13 years of investment experience)

With Fisch Asset Management since 2011

Research responsibility: Security analysis focused on North America /

Communications, Healthcare

**Portfolio responsibility:** Lead Portfolio Manager of the FISCH Convertible Global Dynamic Fund and mandate portfolios, Portfolio Manager of FISCH Convertible Global Opportunistic Fund



Roland Hotz, Senior Portfolio Manager (18 years of investment experience) With Fisch Asset Management since 2001

Research responsibility: -Portfolio responsibility: -



Stefan Meyer, Senior Portfolio Manager, CFA, FRM, CMT, CAIA (25 years of investment experience)

With Fisch Asset Management since 2008

**Research responsibility**: Security analysis focused on Asia / Information Technology

**Portfolio responsibility:** Lead Portfolio Manager of FISCH Convertible Global Sustainable Fund, JSS Bond Global Convertible Fund and mandate portfolios



Leonardo Spangaro, Portfolio Manager, CFA (4 years of investment experience)

With Fisch Asset Management since 2015

**Research responsibility**: Security analysis focused on Japan / Industrials, Utilities

**Portfolio responsibility:** Lead Portfolio Manager of mandate portfolios, Portfolio Manager of FISCH Convertible Global Dynamic Fund and FISCH Bond Global CHF Fund

# **Contact Person**

For further information please visit our Homepage www.fam.ch or contact our Sales Team: fisch\_asset\_management@fam.ch, +41 44 284 24 24.

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