

# Asset Allocation: Senior Leveraged Loans

This paper examines the main asset classes and their respective behaviour. The paper then goes on to discuss why we believe European senior leveraged loans are an attractive investment opportunity.

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2. Broad asset class comparison
3. 40/60 case study
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5. Conclusion

## INTRODUCTION

Every asset class exhibits unique and distinctly different characteristics, depending on the nature and economics of that given asset. For example, equities will typically generate a higher return than fixed income (“FI”) instruments, but this may come at the cost of higher volatility. Part one of this paper looks to explore the key investible asset classes and their respective traits, highlighting return and volatility over various points in the cycle. Whilst looking at a broad range of assets, this paper will have a particular focus on European senior leveraged loans and why they are an attractive addition to an investment stable.

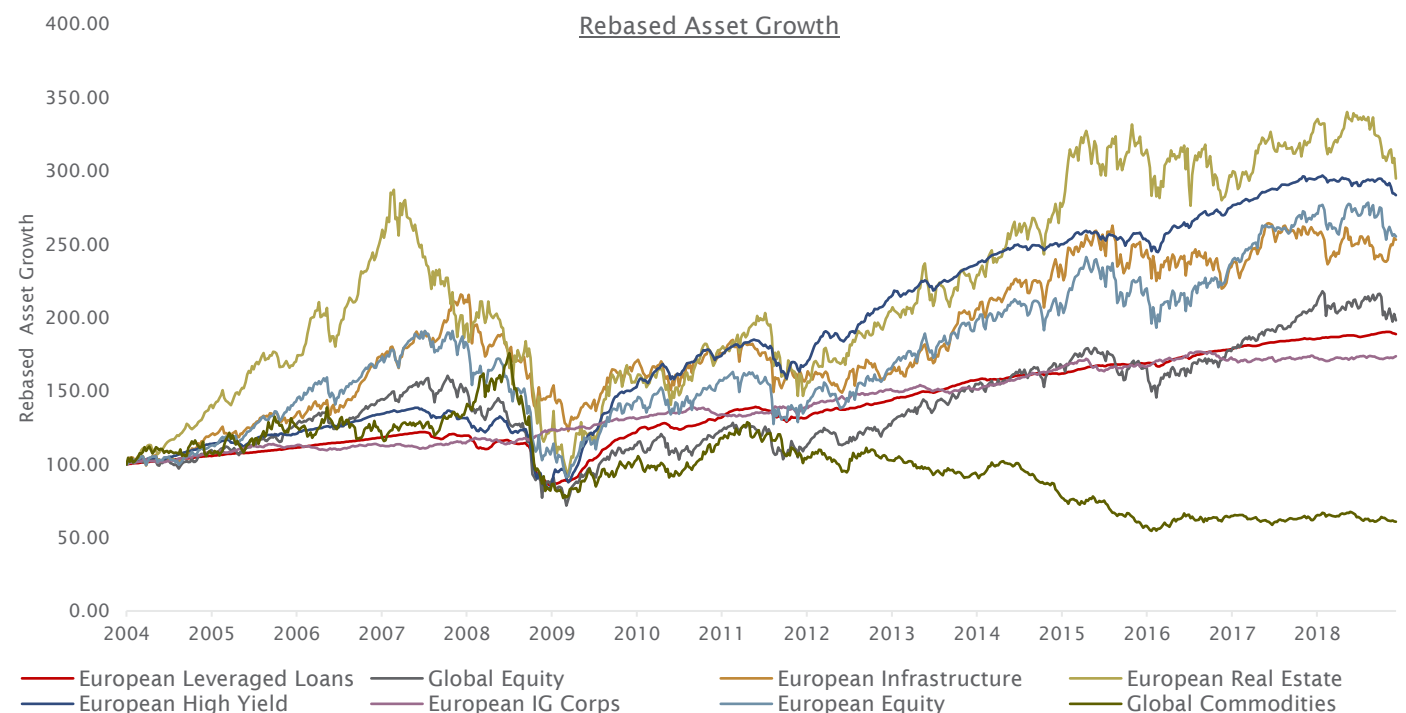
A single asset class alone does not constitute a portfolio and exposes the underlying investor to a single isolated point of risk. It is common practice and evidenced by Harry Markowitz that owning different kinds of risky assets is less risky than owning one kind of risky asset, as introduced in his 1952 essay on modern portfolio theory (“MPT”). The basic premise being that assuming non-perfect correlation, risk is not additive. Part two of this paper explores the benefits of portfolio optimisation with a key focus on adding senior leveraged loans to a typical 40/60 investment portfolio (40% investment grade (“IG”) FI and 60% equity). Ultimately, like any team, a good portfolio must rely on multiple players to achieve the goals of a given investor.

*“The way a team plays as a whole determines its success. You may have the greatest bunch of individual stars in the world, but if they don’t play together, the club won’t be worth a dime.” – Babe Ruth, professional baseball player*

Finally, given the focus on senior leveraged loans throughout, a note on the qualitative aspect of investing in the asset class.

## RISK VS. RETURN ANALYSIS

Over 6,500 lines of data have been investigated, spanning back to 2004 to produce a comprehensive set of analysis across eight asset classes. A fundamental theory of economics is that economic prosperity (and decline) comes in peaks and troughs, and over cycles. Therefore, we have split the various pieces of analysis out over points in the cycle to give a complete overview of how different asset classes behave in different times of stress. Please see below for a rebased index for the asset classes discussed within this paper:



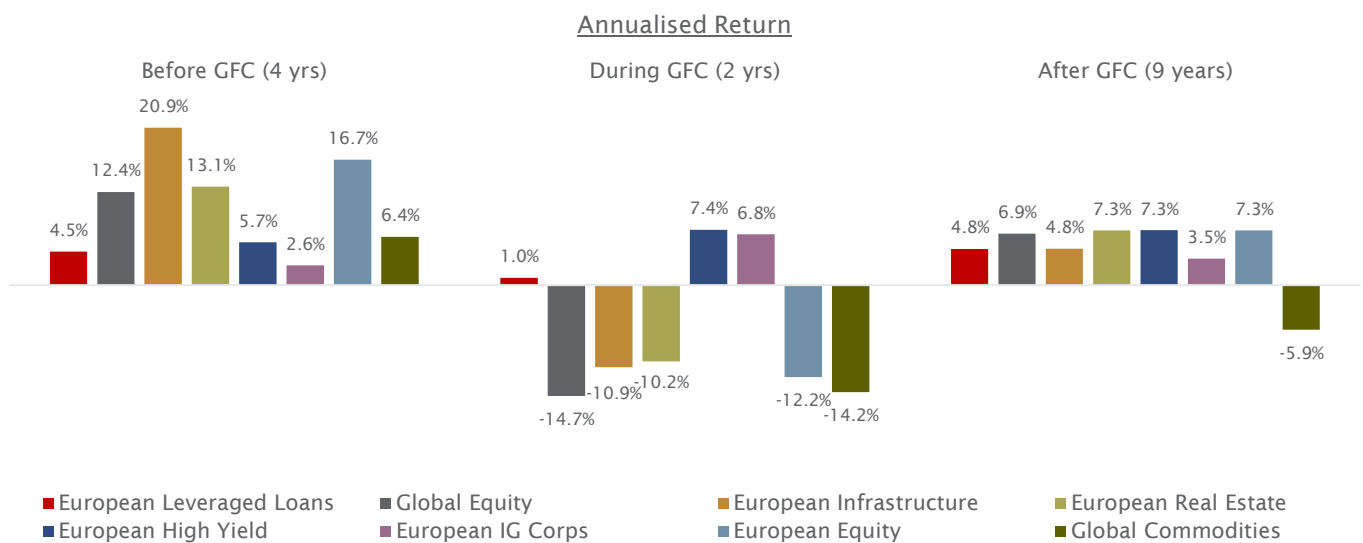
Source: Indices listed and detailed below. Data from 01/01/2004 - 08/08/2019.

It is difficult to gain any meaningful insight from a rebased graph that has a multitude of data points, let alone assess the volatility of returns or the correlation between assets. As discussed above, we can break down cycles into multiple periods to best analyse the data. It is not unusual for assets to be positively correlated in one period, then negatively correlated the next (bonds and equity being an excellent example).

We have broken down the cycle into three distinct periods:

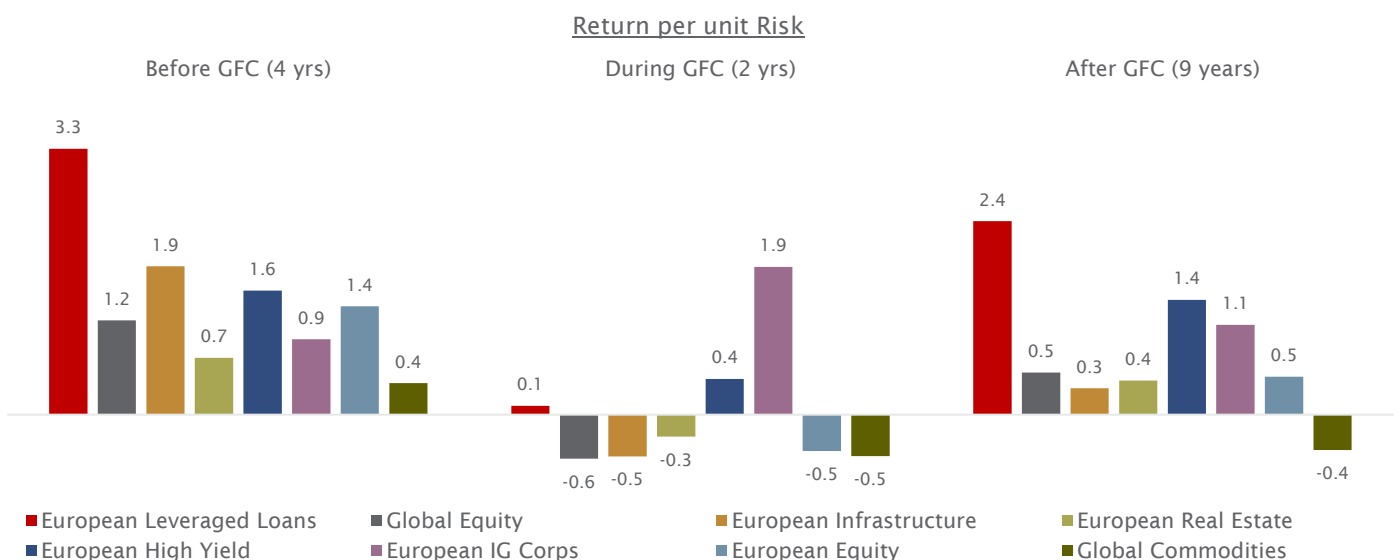
- **Before the Great Financial Crisis (“GFC”):** This is defined as from inception (01/01/2004) up until the onset of the crisis (01/01/2008).
- **During the GFC:** This is defined as 01/01/2008 until 01/01/2010. This period saw the bankruptcy of the investment bank Lehman Brothers, along with the consolidation of Bear Stearns and the collapse of a myriad of other financial institutions.
- **After the GFC:** This is defined as the period following the GFC. This period has seen the longest bull market in history with interest rates defying traditional economic theory and turning negative.

Please see below for historical annualised returns through the periods listed above:



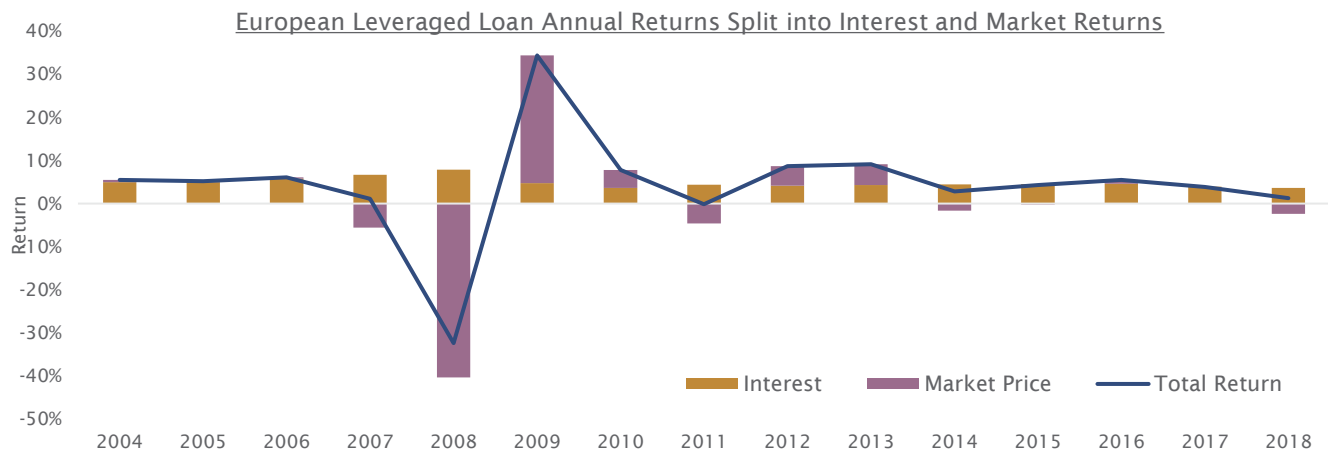
As expected, the period leading up to the GFC saw an unprecedented upward trend fuelled by light regulation and sky-high valuations. This is reflected in the data above as equities and real estate soar. Prior to the crash the FI asset classes all demonstrate stable and consistent returns. During the crash, the three assets with the lowest returns are the only assets to not post negative returns. The subdued bull market following the GFC has led to relatively stable growth with only commodities suffering.

However, the return is only one part of the investment puzzle as the volatility of the returns generated is of key importance. Once we combine the historical risk with the historical return a clear winner emerges in European leveraged loans.



Source: Indices listed and detailed on page 5. Data from 01/01/2004 - 08/08/2019. Performance data shown represents past performance and is no guarantee of, and not necessarily indicative of future performance.

The above demonstrates that European leveraged loans exhibit the best return per unit risk before and after the crisis. The gap between leveraged loans and the other asset classes during this time period is substantial. Qualitatively leveraged loans also exhibit lower default rates and higher recoveries than high yield bonds<sup>ii</sup>. We have broken down the return of the ELLI into the interest rate component and the market value component. See below:

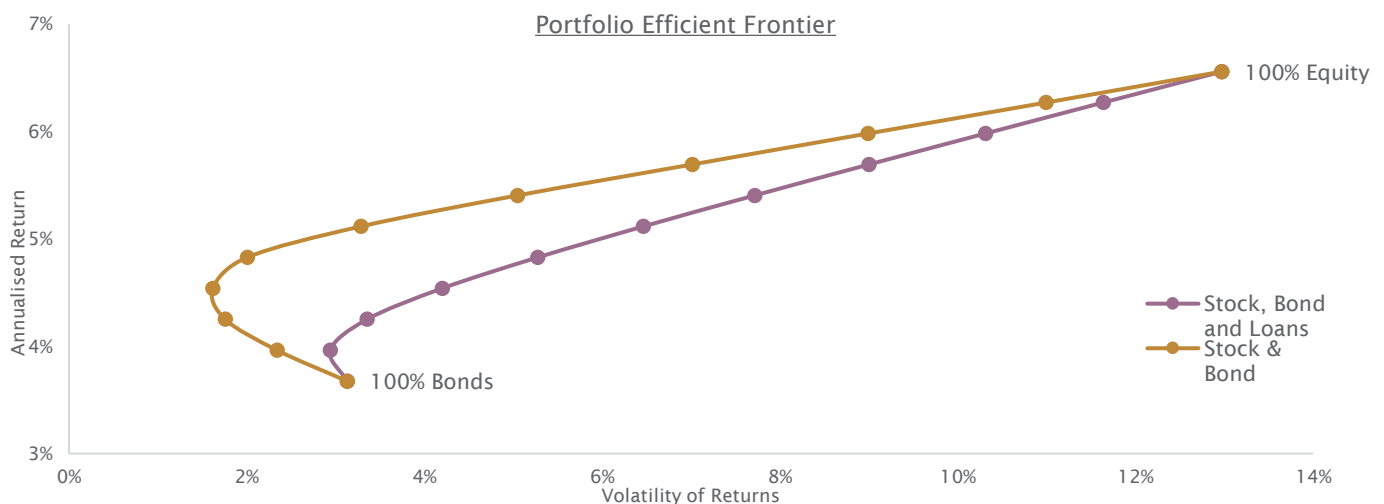


Source: S&P ELLI as listed below, from 01/01/2004 – 31/12/2018.

Once we look further into what happened in 2008 to 2009 to cause such volatility, it becomes clear why leveraged loans performed third best during the GFC. The interest component of the index remains remarkably strong, demonstrating consistent cashflows afforded to investors in leveraged loans. The main driver of returns during the crash are from the sharp downward movement of secondary prices (a sharp rebound in 2009 should also be noted). As the markets crashed, banks and CLOs were forced sellers of leveraged loans and therefore the market sunk with them, providing a one-off opportunity unlikely to be repeated in a normal recession to take advantage of the low prices and buy leveraged loans. If an investor had invested in a buy and maintain, closed ended fund structure, then the volatility from market price would be erased. When investing in leveraged loans it is important to consider the best vehicle. Leveraged loans provide consistent, stable and risk adjusted returns.

**40/60 CASE STUDY**

Investors have long lived by the rule of investing 60% of their assets in higher returning, but potentially higher risk equity, alongside 40% in lower risk and lower returning investment grade corporate debt. We aim to investigate what would happen if an investor were to replace some of this allocation with European leveraged loans using MPT. As initially discussed, Harry Markowitz pioneered the concept of MPT and how a risk adverse investor can diversify a portfolio to reduce the overall risk. His paper titled "Portfolio Selection", published in 1952 by the Journal of Finance (which was awarded a Nobel prize), lays down how an "efficient frontier" can be created. The "efficient frontier" is simply the line of minimised risk (standard deviation) for each respective return point for a portfolio of assets. We have run the analysis and created the frontier for an allocation purely in bonds and equity, and then on top we have an allocation towards bonds, equity and senior loans, see below:



Analysis has been run post crisis. 01/01/2010 – 08/08/2019 on a weekly basis

Source: Indices listed and detailed on page 5. Data from 01/01/2004 - 08/08/2019. Performance data shown represents past performance and is no guarantee of, and not necessarily indicative of future performance.

The benefits of adding senior leveraged loans to a portfolio of purely equity and bonds are clear. All points have shifted up and now have a higher return for the same or lower risk. A downside of MPT is that by optimising it will skew the investment portfolio into an unrealistic position based on the underlying mathematics (for example it will push leveraged loans over the other asset classes purely because of the risk adjusted return). To counter this we have taken some base case examples and illustrated the resulting risk and return:

Global Equity	60%	60%	60%	50%	50%	50%	0%
Euro IG Corporates	40%	30%	20%	40%	30%	20%	50%
Senior Loans	0%	10%	20%	10%	20%	30%	50%
<b>Return</b>	<b>5.40%</b>	<b>5.52%</b>	<b>5.63%</b>	<b>5.23%</b>	<b>5.34%</b>	<b>5.46%</b>	<b>4.24%</b>
<b>Standard Deviation</b>	<b>7.72%</b>	<b>7.79%</b>	<b>7.88%</b>	<b>6.51%</b>	<b>6.58%</b>	<b>6.67%</b>	<b>1.77%</b>
Return / Risk	0.70	0.71	0.71	0.80	0.81	0.82	2.39

Source: indices used are listed below and MPT has been used to calculate the returns. Calculated by MV Credit.

It is evident from the above that adding senior leveraged loans to a portfolio of equity and bonds will increase the overall return per unit risk by diversification and introduce an asset with lower volatility than the other asset classes.

#### WHY INVEST IN LEVERAGED LOANS

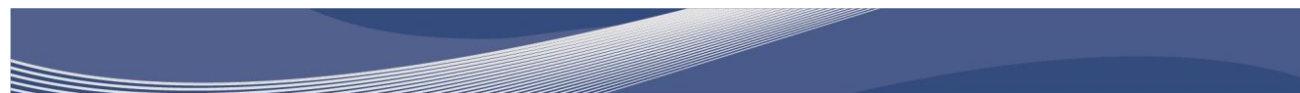
Apart from the purely quantitative aspect of adding senior leveraged loans to an investment portfolio, several other reasons exist to invest:

1. Senior leveraged loans are floating rate and therefore have minimal exposure to interest rate movements. This is beneficial in an environment of low interest rates as other debt instruments will have comparatively low returns (government debt in the eurozone is in negative territory). We are seeing this now as investors seek yield from other sources because their FI portfolios are not generating sufficient returns. The floating rate aspect also provides a hedge against interest rates should they rise.
2. As FI instruments, senior leveraged loans generate consistent high cashflows. A portfolio of senior leveraged loans is de-risking in nature as recurrent cashflows are paid to the investor.
3. Low correlation to traditional asset classes results in a high diversification impact when creating a portfolio of multiple asset classes.
4. Loans typically trade close to par due to low duration. This is also limited by the fact that the borrower can typically prepay the loan after two years without paying a break cost.
5. High return in a world where negative interest rates are the new normal.

An allocation to senior leveraged loans offers multiple benefits aside from reducing the overall portfolio risk.

#### CONCLUSION

To construct a successful investment portfolio, multiple asset classes must be considered. It has been demonstrated in this paper that adding European senior leveraged loans can enhance returns and can also reduce risk. Senior leveraged loans have consistently exhibited the highest risk adjusted return for the period shown above. This piece has been run on the basis of an index that buys the market. If you pair that with the correct manager, defaults and losses can be minimised resulting in alpha. It should also be noted that were an investor to invest in a long-term capital vehicle, potential volatility can be managed. Senior leveraged loans can enhance and diversify an asset allocation and we believe they are underinvested in as an asset class.



### Methodology

The returns within this paper have been calculated using a simple average of compounded weekly returns and then annualised. The week on week returns are calculated on a logarithmic basis. The volatility or risk is calculated as the standard deviation of weekly returns, multiplied by the square root of 52 to annualise the data. The efficient frontier is calculated by minimising the standard deviation within a portfolio for a given return by using MPT.

### Indices

**European Leveraged Loans:** *S&P European Euro Denominated Loan Index* The index reflects the market-weighted performance of institutional leveraged loan portfolios investing in European credits in the given segment (in this case Euro denominated facilities).

**Global Equity:** *MSCI AC World Index* The index reflects a broad global equity index that represents large and mid-cap equity performance. The index is market cap weighted.

**European Infrastructure:** *MSCI Europe Infrastructure* The index captures the global opportunity set of companies that are owners or operators of infrastructure assets. Constituents are selected from the equity universe of MSCI Europe, the parent index, which covers mid and large cap securities across the 15 Developed Market (DM) countries in Europe.

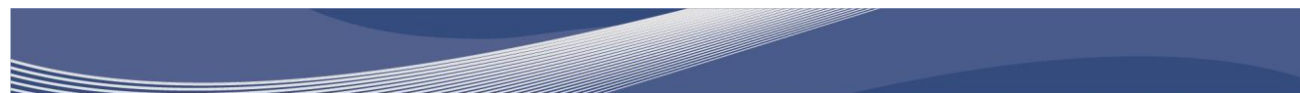
**European Real Estate:** *S&P Europe REIT* The index measures the investable Europe real estate investment trust market and maintains a constituency that reflects the market's overall composition.

**European High Yield:** *Bloomberg Barclays Pan European High Yield Euro* The index measures the market of non-investment grade, fixed-rate corporate bonds denominated in Euro.

**European IG Corps:** *FTSE Euro Broad Investment-Grade Bond Index* The index is a multi-asset benchmark for Euro-denominated fixed income bonds. We have used the corporate AAA/AA/A index. The index is market cap weighted and rebalances once a month at month end.

**European Equity:** *MSCI Europe* The index reflects a broad equity index that represents large and mid-cap equity performance across 15 European countries. The index is market cap weighted.

**Global Commodities:** *Bloomberg Commodity Index* The index is calculated on an excess return basis and reflects commodity futures price movements.



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<sup>i</sup> Harry Markowitz, *Portfolio Selection*, The Journal of Finance, Vol. 7, No. 1. (Mar. 1952), pp. 77-91.

<sup>ii</sup> Moody’s Public Data



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