EuroZone Market Monitor – 30 September 2022

Data sources: Bloomberg; Barclays; EuroStat; Oxford-Man Institute; Milliman FRM



### Asset Price Monitor

#### Local Equity Markets

- Global equity markets had another negative performance in September as global central banks continued to hike policy rates.
- The Euro Stoxx 50 fell by 5.5%, having lost 3.7% during Q3.
- The FTSE 100 ended the month down 5.2%.

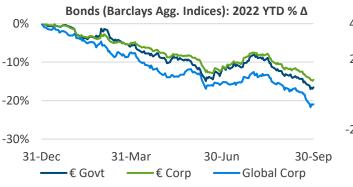
### **Global Equity Markets**

- The S&P 500 witnessed a 9.2% drop in September, and the Japanese Topix lost 5.5%.
- The MSCI Emerging Markets index was down 11.7% at month-end.

#### **Bond/FX Markets**

- Bond markets continued their downward trend in September, with the European government bond index down 3.8% at monthend.
- The European corporate bond index was down 3.3%.
- The Euro had a mixed performance in September, losing 2.6% against the US Dollar. Meanwhile, gaining 1.7% and 1.5% against the Japanese Yen and the British Pound, respectively.









Total Returns as of September 30, 2022												
	Euro Stox 50	<sup>X</sup> FTSE 100	SMI	US (S&P)	Japan (Topix)	Em/Mkts (MSCI)	€ Govt	€ Corp	CHF in EUR	USD in EUR	JPY in EUR	GBP in EUR
1 Month	-5.5%	-5.2%	-5.3%	-9.2%	-5.5%	-11.7%	-3.8%	-3.3%	1.3%	2.6%	-1.7%	-1.5%
3 Month	-3.7%	-2.7%	-4.3%	-4.9%	-0.8%	-11.4%	-5.0%	-3.1%	3.3%	6.9%	0.2%	-2.0%
1 Year	-15.3%	0.9%	-9.3%	-15.5%	-7.1%	-27.8%	-17.0%	-15.1%	11.7%	18.1%	-9.1%	-2.1%
YTD	-20.5%	-3.7%	-18.0%	-23.9%	-5.5%	-26.9%	-16.5%	-14.6%	7.2%	16.0%	-7.7%	-4.2%

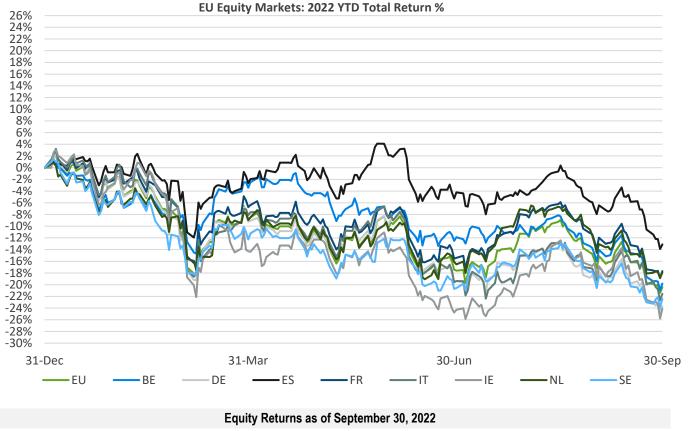
# **C** Milliman

EuroZone Market Monitor – 30 September 2022

Data sources: Bloomberg; Barclays; EuroStat; Oxford-Man Institute; Milliman FRM

# **Eurozone Equity**

- All major European equities posted losses for September.
- The Irish equity market was the worst performer of the month, down 9.3%. The index is also the worst performing equity market in the region year-to-date, having lost 24.1%.
- Italian equities suffered the smallest loss in the region in September, falling by 4.1%.
- The Spanish equity market remains as the outperformer year-to-date, down 13.1% for the year so far.



Equity Returns as of September 30, 2022											
	EU	Belgium	Germany	Spain	France	Italy	Ireland	Netherlands	Sweden		
1 Month	-5.5%	-6.0%	-5.6%	-6.6%	-5.8%	-4.1%	-9.3%	-5.8%	-4.6%		
3 Month	-3.7%	-8.4%	-5.2%	-8.3%	-2.5%	-2.4%	0.9%	-2.2%	-2.2%		
QTD	-3.7%	-8.4%	-5.2%	-8.3%	-2.5%	-2.4%	0.9%	-2.2%	-2.2%		
YTD	-20.5%	-19.8%	-23.7%	-13.1%	-17.7%	-21.6%	-24.1%	-17.9%	-22.4%		

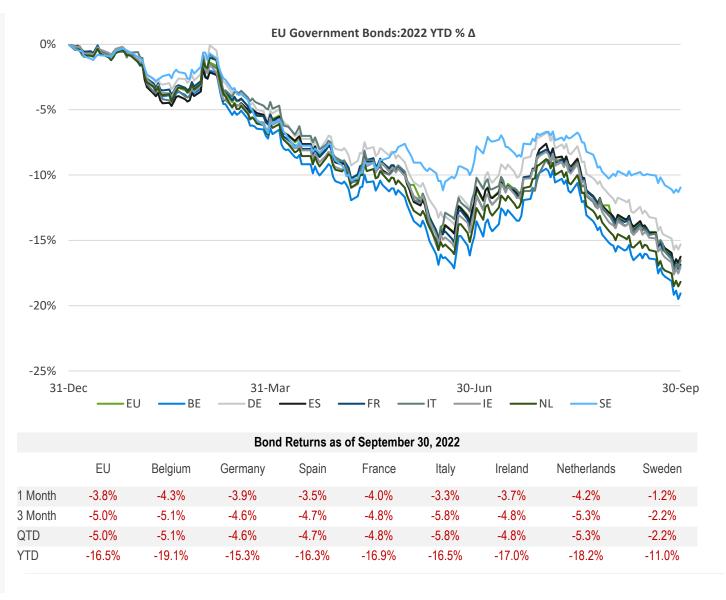


EuroZone Market Monitor – 30 September 2022

Data sources: Bloomberg; Barclays; EuroStat; Oxford-Man Institute; Milliman FRM

#### **Eurozone Government Bonds**

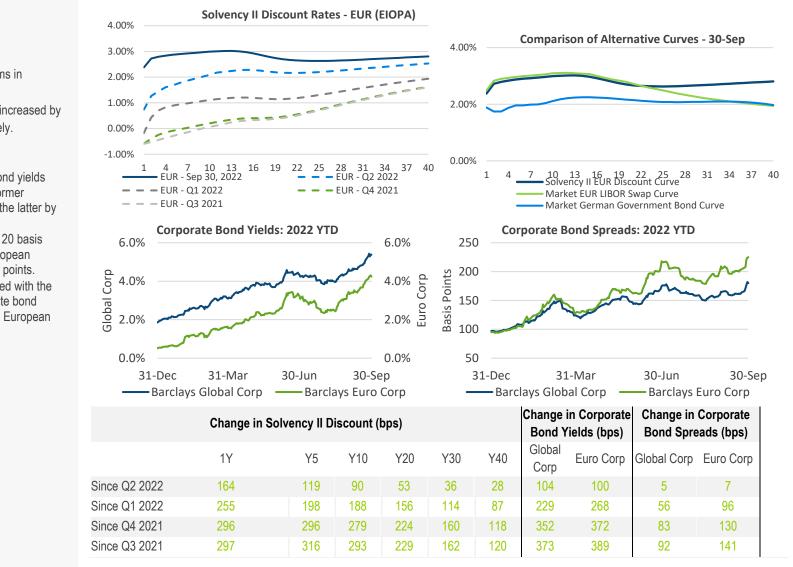
- All major European government bond indices continued their slide in September and made losses for the month.
- The Swedish government bond index dropped the least in comparison to its peers, down 1.2%. Swedish government bonds have also suffered the smallest loss for the year, down 11.0% year-to-date.
- The Belgian government bond index saw the biggest fall, losing 4.3%. The index is also the worst performer year-to-date, down 19.1% for the year so far.





EuroZone Market Monitor – 30 September 2022

Data sources: Bloomberg; Barclays; EuroStat; Oxford-Man Institute; Milliman FRM



# Liability Valuation Monitor

#### **Risk Free Rates**

- EUR risk-free rates rose at all terms in September.
- The 5 and 10-year risk-free rates increased by 70 and 66 basis points, respectively.

#### **Corporate Bonds**

- European and global corporate bond yields rose sharply in September. The former increased by 88 basis points and the latter by 87 basis points.
- Global credit spreads widened by 20 basis points in September and their European counterparts widened by 23 basis points.
- The rise in risk-free rates, combined with the widening in the European corporate bond spreads, resulted in losses for the European corporate bond index.

**L** Milliman

•

the last report.

EuroZone Market Monitor – 30 September 2022

Data sources: Bloomberg; Barclays; EuroStat; Oxford-Man Institute; Milliman FRM



The Solvency II risk-free discount rates are based on applying the Smith-Wilson Extrapolation to LIBOR swap rates sourced from Refinitiv and applying the Credit Risk Adjustment as defined in the Technical Specs. The data is provided by EIOPA and as of 30/09/22.

The Credit Risk Adjustment is a component of the risk-free discount curve defined by EIOPA. It is calculated from actual experience in the 'LIBOR-OIS' spread (3) months for EUR), and is bounded between 0.10 and 0.35. We show actual LIBOR-OIS spread levels and the defined CRA, for EUR.

EIOPA fundamental spreads show the credit spread corresponding to the risk of default or downgrading of an asset. This is shown here across financial and nonfinancial assets, credit quality steps 0-3 and durations of 1-30 years. The data is provided by EIOPA and as of 30/09/22. Fundamental spread = maximum (probability of default + cost of downgrade; 35% of long-term average spread). In the tables we show the 'before floor' measure = probability of default + cost of downgrade.

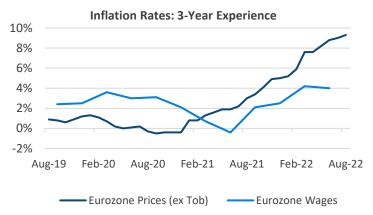


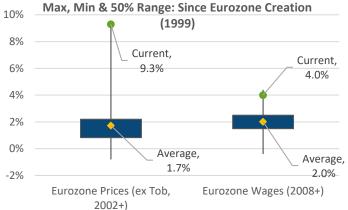
EuroZone Market Monitor – 30 September 2022

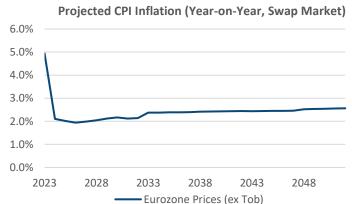
Data sources: Bloomberg; Barclays; EuroStat; Oxford-Man Institute; Milliman FRM

#### Inflation Monitor

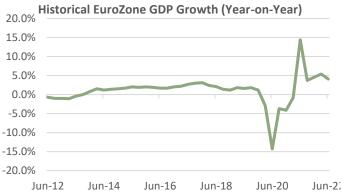
- Eurozone price inflation rose to 9.3% in August, an increase of 30 basis points from the previous month.
- The Eurozone projected CPI curve declined at the very near-term with the 1-year forward CPI falling by 2.8%, whilst the longer-end of the curve saw a marginal increase.
- There were no updates to the wage inflation figure this month.











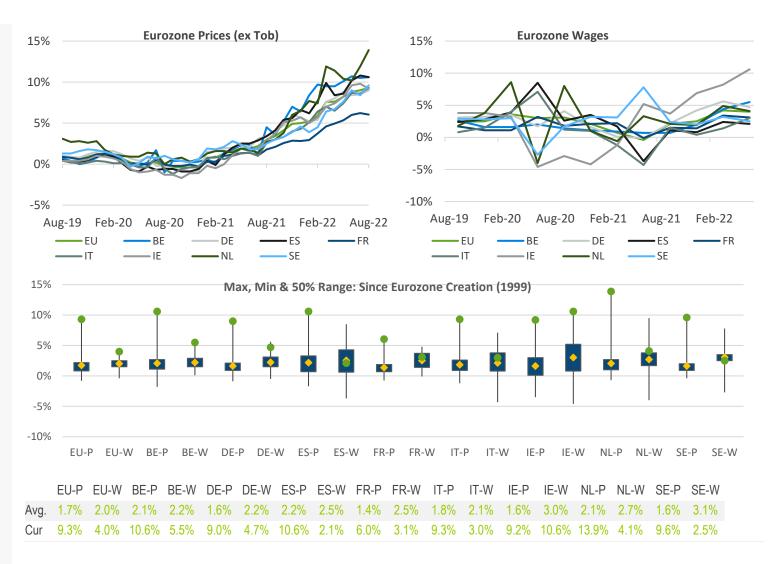


EuroZone Market Monitor – 30 September 2022

Data sources: Bloomberg; Barclays; EuroStat; Oxford-Man Institute; Milliman FRM

#### Inflation Monitor

- Inflation figures for major European economies were mixed in August.
- Dutch price inflation saw the largest increase in the region in August, with the headline figure increasing by 200 basis points to 13.9%, which was the highest price inflation in the Euro area in August.
- Irish prices fell by 60 basis points to 9.2%, the largest drop in comparison to the other European economies.
- France remained the country with the lowest price inflation in the Eurozone, at 6.0%.
- There were no updates to the wage inflation figures this month.





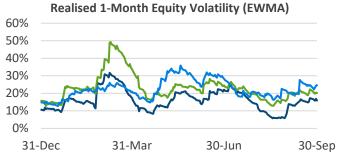
EuroZone Market Monitor - 30 September 2022

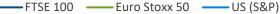
Data sources: Bloomberg; Barclays; EuroStat; Oxford-Man Institute; Milliman FRM

#### Volatility and Hedging Cost Monitor

- Realised volatilities on major indices increased in September as equity markets witnessed a wide selloff.
- The FTSE 100 ended the month with a realised volatility of 15.9%. The same measure stood at 20.2% and 24.7% on the Euro Stoxx 50 and the S&P 500.
- \*\* Please note that due to some missing data ٠ the volatility risk premiums have only been updated to the 28th of June. \*\*

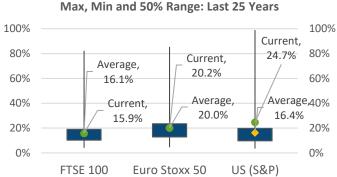
Please contact Milliman for more information on the basis and methodology used for these results.







15%



# **Expected Volatility** (Milliman Guarantee Index) 10% 2023 2024 2025





EuroZone Market Monitor – 30 September 2022

Data sources: Bloomberg; Barclays; EuroStat; Oxford-Man Institute; Milliman FRM

#### Chicago

71 South Wacker Drive Chicago, IL 60606 +1 855 645 5462

#### London

11 Old Jewry London EC2R 8DU UK +44 0 20 7847 1557

### Sydney

32 Walker Street North Sydney, NSW 2060 Australia +610 2 8090 9100

#### Amsterdam

Haaksbergweg 75 Amsterdam, 1101 BR Netherlands +31 6 211 70 583 Milliman

# Creating transformational improvement in the retirement savings industry.

Milliman Financial Risk Management LLC / Milliman Financial Strategies Ltd. is a global leader in financial risk management to the retirement savings industry. Milliman FRM provides investment advisory, hedging, and consulting services on approximately \$176.1 billion USD in global assets (31 December 2021).

Established in 1998, the practice includes professionals operating from four trading platforms around the world (Chicago, London, Amsterdam and Sydney).

#### MILLIMAN.COM/FRM

Milliman is among the world's largest providers of actuarial and related products and services. The firm has consulting practices in healthcare, property & casualty insurance, life insurance and financial services, and employee benefits. Founded in 1947, Milliman is an independent firm with offices in major cities around the globe.

Recipients must make their own independent decisions regarding any strategies or securities or financial instruments mentioned herein.

The products or services described or referenced herein may not be suitable or appropriate for the recipient. Many of the products and services described or referenced herein involve significant risks, and the recipient should not make any decision or enter into any transaction unless the recipient has fully understood all such risks and has independently determined that such decisions or transactions are appropriate for the recipient.

Past performance is not indicative of future results. Index performance information is for illustrative purpose only, does not represent the performance of any actual investment or portfolio, and should not be viewed as a recommendation to buy/sell. It is not possible to invest directly in an index. Any hypothetical, backtested data illustrated herein is for illustrative purposes only, and is not representative of any investment or product.

Any discussion of risks contained herein with respect to any product or service should not be considered to be a disclosure of all risks or a complete discussion of the risks involved.

The recipient should not construe any of the material contained herein as investment, hedging, trading, legal, regulatory, tax, accounting or other advice. The recipient should not act on any information in this document without consulting its investment, hedging, trading, legal, regulatory, tax, accounting and other advisors.

The materials in this document represent the opinion of the authors and are not representative of the views of Milliman, Inc. Milliman does not certify the information, nor does it guarantee the accuracy and completeness of such information. Use of such information is voluntary and should not be relied upon unless an independent review of its accuracy and completeness has been performed. Materials may not be reproduced without the express consent of Milliman.

Milliman Financial Strategies Ltd. is authorised and regulated by the Financial Conduct Authority. Firm Registration Number 539399