

**BARINGS**

# **European Real Estate: Frightening Tightening?**

*European Real Estate Research Quarterly*



NOVEMBER 2023

23-3203645

## *Executive Summary*

### **ECONOMY**

- Interest rate adjustments continue to slow the Eurozone economy to a crawl.
- Despite renewed energy price volatility, inflation in the Eurozone continues its steady downward trajectory, but is proving more stubborn in the U.K.
- Dovish comments from the ECB contrast with more hawkish “higher for longer” rhetoric from the Fed.

### **PROPERTY MARKETS**

- While further capital declines are still occurring, we are now technically past the trough of the property cycle.
- Upward yield movements have been indiscriminate to investment fundamentals, with the best sectors and assets seeing the largest negative re-pricing.
- A considerable opportunity has emerged for those with capital to employ for the next property cycle.
- A deeper second leg to the correction would likely require interest rates to remain elevated for a very prolonged period or ratchet up even higher.
- Offices: CEOs have strong aspirations to get employees back to the office, but this won't solve Europe's rising office obsolescence problem.
- Retail: Steady retail vacancy in the first half of 2023, although the rate will likely rise as further store/portfolio rationalizations appear inevitable.
- Industrial: Ongoing supportive industrial market fundamentals will likely drive future positive rental growth performance, albeit at a more moderate pace.
- Residential: Rental property shortages are unlikely to ease, new schemes are being delayed, and higher mortgage rates are locking out would-be buyers; rental growth prospects remain strong.

## Economic Outlook

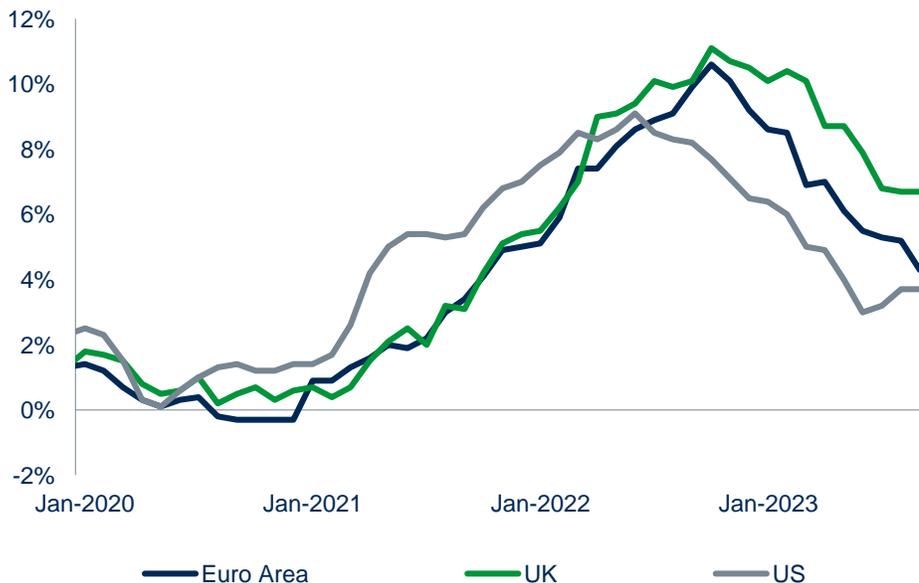
Unlike the U.S., the pace and magnitude of interest rate adjustments continue to slow the Eurozone economy to a crawl, with growth in the second quarter of 2023 a meager 0.1%. Economic softness was wide ranging, with flat consumer spending (from cost-of-living pressures), soft fixed investment, with Oxford Economics forecasting 2023 annual GDP growth at just 0.5% (Figure 2).

High frequency survey data also indicate further economic softness to come, with the Eurozone composite PMI at 47.2 in September 2023, up slightly from the previous month (46.7) yet still well below 50 indicating contraction. Services PMIs improved slightly in September (to 48.7 from 47.9), and manufacturing PMIs appear to be stabilizing after a steep 16-month deterioration to a miserly 43.4.<sup>1</sup>

Eurozone inflation continues its steady downward trajectory. In September the rate fell sharply to 4.3% from 5.2%, coming in below market consensus (Figure 1). Encouragingly, the core rate of inflation also dropped sharply in September to 4.5%, from 5.3% in August. However, U.K. inflation is proving to be stickier, holding steady at 6.7%, yet well below last October's peak of 11.1%. To some extent, the U.K. appears to have suffered from the worst of both worlds: a U.S.-style labor supply shock and a euro area-style energy and food shock.

At its September meeting, the European Central Bank (ECB) raised rates by 25 basis points (bps), to the highest level since 2001. Assuming no negative surprises, it appears that the terminal rate has been reached. Dovish comments from the ECB stated that rates, if maintained for an adequate duration, are now at a level to bring inflation back down to target.

FIGURE 1: INFLATION RATES



Source: Eurostat, ONS, U.S. Bureau of Statistics, Statista. As of September 29, 2023.

<sup>1</sup> Source: S&P Global. As of October 2023.

Evidence that U.S. monetary policy sets the template for central banks globally was seen in early October when statements from the U.S. Federal Reserve (Fed) fueled concerns that U.S. rates will have to stay “higher for longer.” This sparked a major correction in global bond markets, although there has been some claw-back since. Fluctuations around interest rate concerns will remain a feature of the market until inflation has been unambiguously tamed or there are further indications the economy has turned.

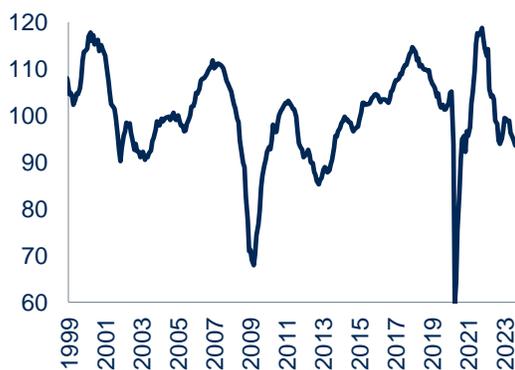
While high interest rates do appear to be having an impact on inflation, they are clouding the economic outlook, as is the recent instability in the Middle East. Softer GDP growth is expected in the Eurozone in 2024 (0.8% p.a.), before recovering in 2025 (1.75%), which is when the ECB will have likely commenced cutting interest rates. Downside risks to the outlook are that central banks have tightened too far, too quickly, monetary policy errors have already occurred, and economies deteriorate to a greater degree than anticipated.

**FIGURE 2: GDP COUNTRY FORECASTS (% P.A.)**

	2021	2022	2023	2024	2025	2026	2027	2023-2027
France	6.4%	2.5%	0.8%	0.6%	1.5%	2.1%	2.2%	1.4%
Germany	3.1%	1.9%	-0.5%	0.4%	1.9%	2.2%	1.7%	1.1%
Italy	8.3%	3.9%	0.6%	0.6%	1.2%	0.8%	0.5%	0.7%
Netherlands	6.2%	4.4%	0.5%	1.3%	1.7%	1.3%	1.1%	1.2%
Spain	6.4%	5.8%	2.4%	1.3%	1.8%	1.8%	1.6%	1.8%
Sweden	5.9%	2.9%	-0.6%	0.2%	2.1%	2.2%	2.0%	1.2%
United Kingdom	8.7%	4.4%	0.7%	0.4%	1.4%	1.9%	1.4%	1.2%

Source: Oxford Economics. As of October 2023.

**FIGURE 3: EUROZONE ESI**



Source: Eurostat. As of September 29, 2023.

**FIGURE 4: EUROZONE GDP**



Source: Oxford Economics. As of September 29, 2023.

## Capital Markets

Commercial real estate transaction volumes remain exceptionally sluggish. Market liquidity remains at lows last seen in 2009. No sector or asset quality was immune from the sharp rise in interest rates. From a pricing perspective, the lowest yielding best prime properties have been negatively impacted the most (i.e., a yield convexity/multiplier effect). We believe considerable opportunity now presents.

The trough of the property cycle is academically defined as the point at which the lowest rate of return occurs—that was earlier this summer (Figure 5). Further capital declines will still occur, albeit at a reduced pace. REIT pricing (a useful forward-looking direct market pricing indicator) has also bottomed out. A deeper second leg to the correction would likely require interest rates to remain elevated for a very prolonged period or ratchet up even higher.

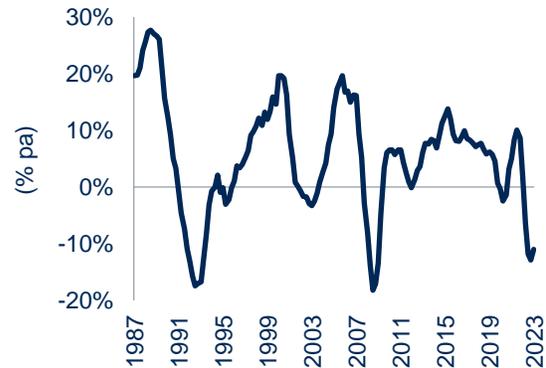
At a sector level, upward yield movements have been indiscriminate to investment fundamentals.<sup>2</sup> Over the past 15-18 months, high street retail property, whose tenants have been pummeled by e-commerce, were up 50 bps to 4.5%. Logistics, which have benefitted from the same trends, saw a much larger 100 bps increase in yields to 5.25%. At the same time, despite an ESG turbocharged occupier “flight to quality” in the office sector, yields there, even though up 100 bps, are only 4.75% for even the rarest, greenest buildings. Residential yields have been slow to move, so far, but increases are now occurring.

In the early 1990s and during the GFC, prime capital values recorded downward adjustments of -20% to 30%, versus about -15% (so far) in the current cycle (Figure 6). This time, the impact has been partially offset by robust rental growth. Rents are up 8% versus a negative yield impact of -20% since mid-2022.

Real estate debt pricing held broadly stable in the third quarter, as central banks hopefully near the end of their tightening cycle. According to Chatham Financial, the five-year EURIBOR swap rate traded in a range between roughly 3% and 3.3%, while the SONIA equivalent was slightly more volatile, trading in the 4.4% to 5.3% range over the quarter (Figure 7). CRE debt margins were also stable, except for offices where prime margins drifted up 10 bps and secondary assets increased 20-30 bps. Lender activity

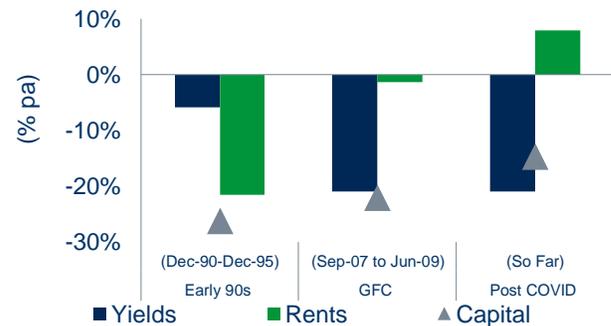
will continue to focus primarily on the considerable challenge of refinancings and loan extensions.

FIGURE 5: EUROPEAN CRE CYCLE (CAPITAL VALUES)



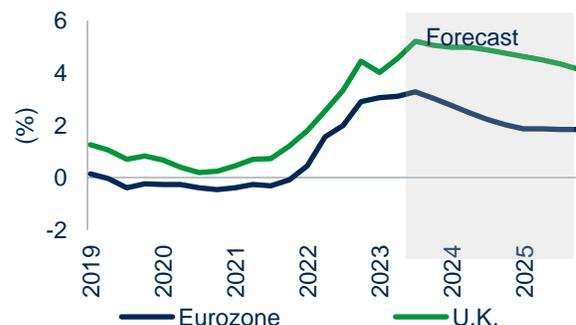
Source: CBRE, Cushman & Wakefield. As of October 2023.

FIGURE 6: EUROPEAN CRE PREVIOUS CORRECTIONS



Source: CBRE, Cushman & Wakefield. As of October 2023.

FIGURE 7: 5-YEAR INTEREST RATE SWAP



Source: Oxford Economic. As of October 2023.

<sup>2</sup> CBRE. As of October 2023.

## Occupier Markets

### OFFICE SECTOR

European take-up totaled 2.2 million sq m in the second quarter of 2023, down -28% from a year ago (Figure 8). Annual take-up reached 10.3 million sq m, down -10% on the 10-year average. Best-in-class, sustainable offices in well-connected locations are increasingly favored by occupiers. Existing tenants are increasingly focused on renegotiating leases to cut costs, which is likely the reason for the rise in reluctance to commit to long-term office space.

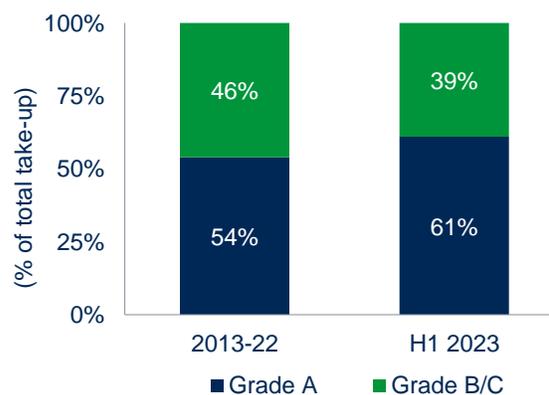
European office vacancy edged up to 8.1% in the second quarter, slightly ahead of the 10-year average (7.7%).<sup>3</sup> New-office starts—especially speculative new builds—have slowed, as higher construction and finance costs combined with labor shortages impact scheme viability. This should help to limit upward vacancy rate pressures.

KPMG’s annual Global CEO Outlook survey suggests a corporate desire to return to the office (RTO), with 64% of the 1,300 respondents predicting a full return to in-office working by 2026 (Figure 9). And with 87% considering linking financial rewards and promotions with office attendance, this could be the impetus to get reluctant employees back in person. Business type will determine the extent of in-office working, with employers mindful of balancing their desires against the ability to attract and retain talent.

Despite a building RTO, a rising proportion of Europe’s office stock faces redundancy. The best located will offer value-add opportunities to reposition for existing purpose, but a large proportion will likely need to be repurposed or redeveloped into alternative uses. This process could face some headwinds from the shift to a low carbon economy, as investors increasingly fear holding stranded assets. To minimize this risk, buyers are increasing incorporating transition risks into their acquisition due diligence. We expect some tough pricing negotiations to ensue.

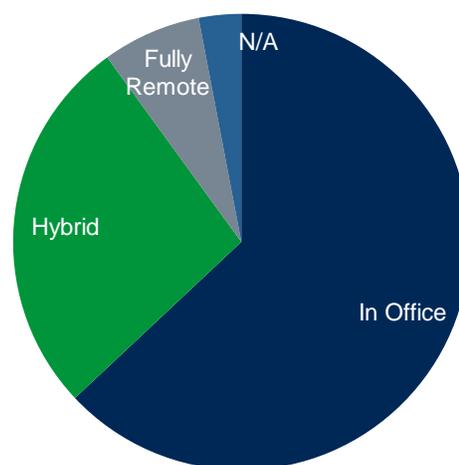
Prime office shortages continue to sustain positive rental growth momentum, with rents increasing by 0.9% quarter-over-quarter and 4.9% p.a. for the 12 months to September 2023.<sup>4</sup> Over the mid to long term, prime office growth prospects are to the upside, especially for net zero carbon offices—a product that barely exists in Europe and globally.

FIGURE 8: EUROPEAN OFFICE DEMAND



Source: Green Street, JLL, CBRE. As of October 2023.

FIGURE 9: CEO IN OFFICE EMPLOYEE EXPECTATIONS<sup>5</sup>



Source: KPMG Global CEO Outlook survey. As of October 2023.

<sup>3</sup> Source: Cushman and Wakefield. As of July 2023.

<sup>4</sup> Source: CBRE. As of September 2023

<sup>5</sup> KPMG CEO Outlook 2023: In three years’ time, how do you envisage the working environment for corporate employees whose roles were traditionally based in-office?

## Occupier Markets

### RETAIL SECTOR

From the cost-of-living crisis to weak consumer confidence, Europe's retail sector is facing cyclical challenges. Year-over-year Eurozone retail sales through August 2023 have been negative for 11 consecutive months (Figure 10).

On the upside, European retail footfall is steadily improving from pandemic lows, although it has yet to fully bounce back to pre-pandemic levels; visitor numbers in the first half of 2023 are down -7% versus 2019.<sup>6</sup> Retailer subsector performance has been mixed, with food & beverage, health and beauty, and sports still showing greater resilience to online. Operators are struggling, with rising debt costs weighing on independents and an uptick in mid-price fashion retailer bankruptcies.

Retail vacancy held broadly steady through the first half of the year at 6.7%.<sup>7</sup> We expect to see some future upward pressures, with unit size reductions and store/portfolio rationalizations looking inevitable.

One upside of the recent surge in inflation is that nominal turnover is also up, and while other costs are also rising for operators, "efforts rates" (rent/turnover) have fallen and rent looks increasingly more affordable.

Following dire performance during the pandemic, prime retail rents seem to have turned a corner, rising by 2.6% p.a. in the third quarter of the year (Figure 11). In continental Europe, annual rental indexation is also sustaining positive net income growth, between reviews and lease renewals.

Our view remains unchanged: physical retail should remain relevant, with people continuing to visit stores. Omnichannel retailers—who embrace technology and find innovative ways to compete with online retailers should thrive. The metaverse has already created digital try-on technology. If social commerce—where customers that can buy goods via social media platforms rather than directly through the vendor website—takes off in Europe, as it has in China, in-store spending faces another threat.

FIGURE 10: EUROZONE RETAIL SALES



Source: Eurostat. As of October 2023.

FIGURE 11: EUROPEAN PRIME RENTAL GROWTH



Source: CBRE, Cushman & Wakefield, Barings. As of September 29, 2023.

<sup>6</sup> Source: CBRE. As of June 30, 2023.

<sup>7</sup> Source: CBRE. As of June 30, 2023.

## Occupier Markets

### INDUSTRIAL SECTOR

Take-up activity levels have slowed markedly, as market conditions revert to pre-pandemic norms and softer economic conditions weigh on logistics demand. In the second quarter of 2023, Italy was the only country where take-up exceeded the same quarter a year earlier (Figure 12). Third-party logistics (3PLs) remain the key demand driver, helping to compensate for the sharp drop in e-commerce demand as the sector readjusts back to pre-pandemic trend growth levels.

Strong development completion levels have pushed the aggregate European vacancy rate up to a still very tight 2.9%.<sup>8</sup> There has been a drop in new development schemes breaking ground due to rising property yields and higher borrowing and building costs that negatively impact scheme viability.

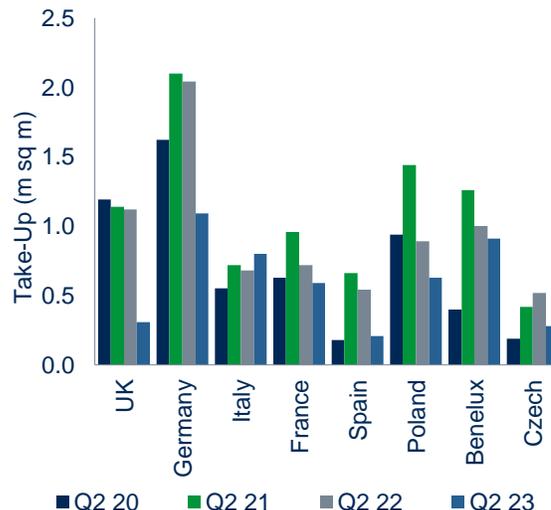
The European logistics sector is already suffering from chronic modern stock shortages (Figure 13). The market is lacking in suitable units capable of accommodating both rising technology and automation requirements, as well as satisfying rising green targets. We expect to see opportunities to upgrade, rebuild or repurpose older stock as the pace of obsolescence accelerates.

Resilient market fundamentals have underpinned double-digit rental growth performance. Through this year the pace has moderated, albeit growth remains very strong, with European prime industrial rents rising 10.5% p.a. or 2.1% quarter-over-quarter in the third quarter.<sup>9</sup> Ongoing supportive supply and demand conditions should help sustain future positive rental growth performance, albeit some further moderation in pace is anticipated, reflecting the softer near-term economic outlook.

Post pandemic, occupiers continue to evolve strategies that boost resilience. Those with impending lease renewals are strategically evaluating their supply chain networks to ensure operations are optimally sited and efficiencies maximized. Manufacturers are also adding protection and actively relocating production closer to their

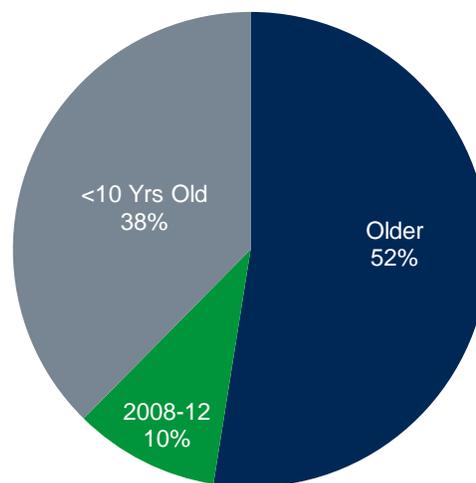
customer base—but the challenge is finding suitable land with the necessary power supply and access to labor.

FIGURE 12: EUROPEAN LOGISTICS TAKE-UP (Q2 ONLY)



Source: CBRE. As of June 30, 2023.

FIGURE 13: EUROPEAN LOGISTICS STOCK VINTAGE



Source: JLL, Barings Research. As of June 30, 2023.

<sup>8</sup> Source: CBRE. As of June 2023.

<sup>9</sup> Source: CBRE, Cushman & Wakefield, Barings. As of September 29, 2023.

## Occupier Markets

### ACCOMMODATION SECTOR

The imbalance between housing demand and supply is underpinning positive rental growth performance, with average Eurozone rents rising 2.6% p.a. in the third quarter of 2023 (Figure 14). In the U.K., rents have soared by 6.2% p.a., well ahead of France (2.2% p.a.), Germany (2.0% p.a.), Italy (2.6% p.a.) and Spain (2.0% p.a.). With long-term chronic supply-demand pressures expected to become acute, higher construction costs will likely delay new starts and elevated mortgage rates will sideline first-time buyers.

House price momentum has rapidly slowed, with Eurozone house prices declining -1.7% p.a. in the second quarter of 2023, compared to 9.2% p.a. a year earlier (Figure 15). Wide country variations exist, with the biggest declines in Germany (-9.9% p.a.) and Sweden (-6.9% p.a.). Growth remains positive in France (0.5% p.a.), Italy (0.7% p.a.), Spain (3.7% p.a.) and the U.K. (2.2% p.a.), albeit at a slower pace.

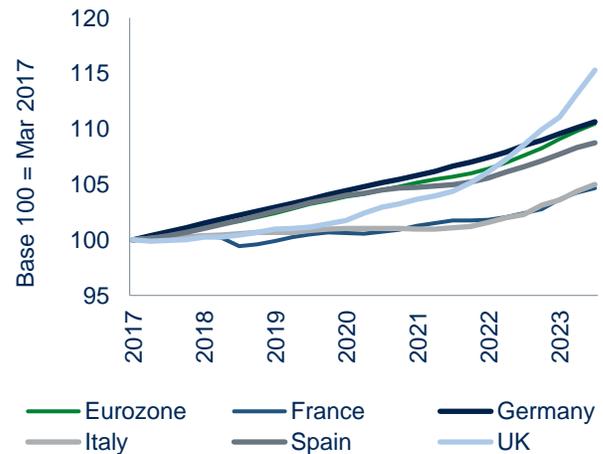
A modest Eurozone house price correction is forecast, although country performance will vary, with national mortgage market structure and pandemic house price run-up key influences. For example, while French and German borrowers typically favor fixed-rate longer maturity mortgages (i.e., 10-years and over), Germany's frothy pandemic house price growth and looser income limits imply a much sharper correction than in France.

In the U.K., the prevalence of fixed-rate mortgages initially shielded borrowers from rate hikes. But shorter U.K. mortgage fixes (typically five, and sometimes two years) mean an increasing number of households will soon need to "refi" at much higher mortgage rates.

Europe's purpose-built student accommodation (PBSA) sector is performing strongly, with occupancy rates high at between 95% and 100% in the schemes tracked by sector data vendor Bonard.<sup>10</sup> Demand is outstripping supply, with JLL estimating that only 15% of students in major European cities can access PBSA accommodation, forcing students into more costly private-market rental studio flats. Rising operational costs and no sign of the

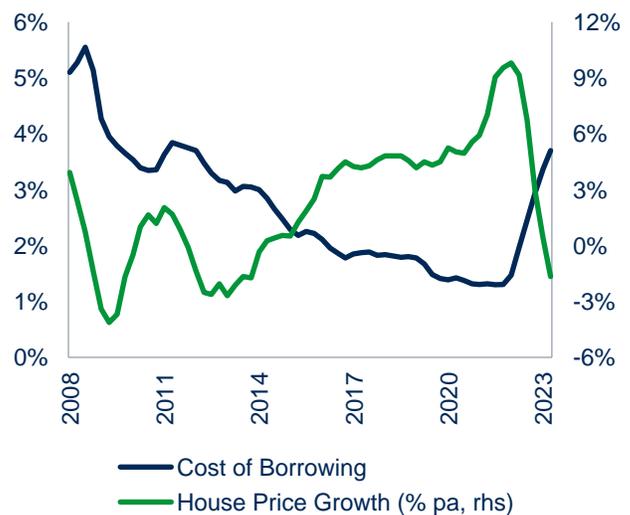
supply and demand balance easing bode well for future sector rental growth prospects.

FIGURE 14: RESIDENTIAL RENTAL GROWTH



Source: OECD. As of October 2023.

FIGURE 15: EUROZONE BORROWING COSTS VS. HOUSE PRICE GROWTH



Sources: ECB, OECD. As of October 2023.

<sup>10</sup> Source: Bonard. As September 2023.

## *About the Team*

Barings Real Estate's research team is structured by sector and geographic expertise, with efforts led by Dags Chen in the U.S. and Paul Stewart in Europe. The team has a diverse background covering various industries, asset classes and countries, which is complemented by an analytics function enhancing the team's ability to collect, augment and analyze data to inform better decision making.



**Paul Stewart**

*Head of Real Estate Research & Strategy—Europe*



**Ben Thatcher**

*Associate Director*



**Jo Warren**

*Director*

# Important Information

Any forecasts in this document are based upon Barings opinion of the market at the date of preparation and are subject to change without notice, dependent upon many factors. Any prediction, projection or forecast is not necessarily indicative of the future or likely performance. Investment involves risk. The value of any investments and any income generated may go down as well as up and is not guaranteed. Past performance is no indication of current or future performance. PAST PERFORMANCE IS NOT NECESSARILY INDICATIVE OF FUTURE RESULTS. Any investment results, portfolio compositions and or examples set forth in this document are provided for illustrative purposes only and are not indicative of any future investment results, future portfolio composition or investments. The composition, size of, and risks associated with an investment may differ substantially from any examples set forth in this document. No representation is made that an investment will be profitable or will not incur losses. Where appropriate, changes in the currency exchange rates may affect the value of investments. Prospective investors should read the offering documents, if applicable, for the details and specific risk factors of any Fund/Strategy discussed in this document. For Professional Investors / Institutional Investors only. This document should not be distributed to or relied on by Retail / Individual Investors. Barings LLC, Barings Securities LLC, Barings (U.K.) Limited, Barings Global Advisers Limited, Barings Australia Pty Ltd, Barings Japan Limited, Barings Real Estate Advisers Europe Finance LLP, BREAE AIFM LLP, Baring Asset Management Limited, Baring International Investment Limited, Baring Fund Managers Limited, Baring International Fund Managers (Ireland) Limited, Baring Asset Management (Asia) Limited, Baring SICE (Taiwan) Limited, Baring Asset Management Switzerland Sarl, and Baring Asset Management Korea Limited each are affiliated financial service companies owned by Barings LLC (each, individually, an "Affiliate"), together known as "Barings." Some Affiliates may act as an introducer or distributor of the products and services of some others and may be paid a fee for doing so.

NO OFFER: solicitation for the purchase or sale of any financial instrument or service in any jurisdiction.

The material herein was prepared without any consideration of the investment objectives, financial situation or particular needs of anyone who may receive it. This document is not, and must not be treated as, investment advice, an investment recommendation, investment research, or a recommendation about the suitability or appropriateness of any security, commodity, investment, or particular investment strategy, and must not be construed as a projection or prediction.

In making an investment decision, prospective investors must rely on their own examination of the merits and risks involved and before making any investment decision, it is recommended that prospective investors seek independent investment, legal, tax, accounting or other professional advice as appropriate.

Unless otherwise mentioned, the views contained in this document are those of Barings.

These views are made in good faith in relation to the facts known at the time of preparation and are subject to change without notice. Individual portfolio management teams may hold different views than the views expressed herein and may make different investment decisions for different clients. Parts of this document may be based on information received from sources we believe to be reliable. Although every effort is taken to ensure that the information contained in this document is accurate, Barings makes no representation or warranty, express or implied, regarding the accuracy, completeness or adequacy of the information.

These materials are being provided on the express basis that they and any related communications (whether written or oral) will not cause Barings to become an investment advice fiduciary under ERISA or the Internal Revenue Code with respect to any retirement plan, IRA investor, individual retirement account or individual retirement annuity as the recipients are fully aware that Barings (i) is not undertaking to provide impartial investment advice, make a recommendation regarding the acquisition, holding or disposal of an investment, act as an impartial adviser, or give advice in a fiduciary capacity, and (ii) has a financial interest in the offering and sale of one or more products and services, which may depend on a number of factors relating to Barings' business objectives, and which has been disclosed to the recipient.

OTHER RESTRICTIONS: The distribution of this document is restricted by law. No action has been or will be taken by Barings to permit the possession or distribution of the document in any jurisdiction, where action for that purpose may be required.

Accordingly, the document may not be used in any jurisdiction except under circumstances that will result in compliance with all applicable laws and regulations.

Any service, security, investment or product outlined in this document may not be suitable for a prospective investor or available in their jurisdiction. Any information with respect to UCITS Funds is not intended for U.S. Persons, as defined in Regulation S under the U.S. Securities Act of 1933, or persons in any other jurisdictions where such use or distribution would be contrary to law or local regulation.

INFORMATION: Barings is the brand name for the worldwide asset management or associated businesses of Barings. This document is issued by one or more of the following entities:

Barings LLC, which is a registered investment adviser with the Securities and Exchange Commission (SEC) under the Investment Advisers Act of 1940, as amended (Barings LLC also relies on section 8.26 of NI 31-103 (international adviser exemption) and has filed the Form 31-103F2 in Ontario, Quebec, British Columbia, Alberta, Nova Scotia, Manitoba, New Brunswick, Newfoundland and Labrador, Prince Edward Island and Saskatchewan); Barings Securities LLC, which is a registered limited purpose broker-dealer with the Financial Industry Regulatory Authority (Baring Securities LLC also relies on section 8.18 of NI 31-103 (international dealer exemption) and has filed the Form 31-103F2 in Ontario, Quebec, British Columbia, Alberta, Nova Scotia, Manitoba, New Brunswick, Newfoundland and Labrador, Prince Edward Island and Saskatchewan);

Barings (U.K.) Limited, which is authorized and regulated by the Financial Conduct Authority in the United Kingdom (Ref No. 194662) and is a Company registered in England and Wales (No. 03005774) whose registered address is 20 Old Bailey, London, EC4M 7BF.

The document is for informational purposes only and is not an offer or Barings Global Advisers Limited, which is authorized and regulated by the Financial Conduct Authority in the United Kingdom (Ref No. 552931) and is a Company registered in England and Wales (No. 07622519) whose registered address is 20 Old Bailey, London, EC4M 7BF and is a registered investment adviser with the SEC; Baring Asset Management Limited, which is authorized and regulated by the Financial Conduct Authority in the United Kingdom (Ref No. 170601) and is a Company registered in England and Wales (No. 02915887) whose registered address is 20 Old Bailey, London, EC4M 7BF; Baring International Investment Limited, which is authorized and regulated by the Financial Conduct Authority in the United Kingdom (Ref No. 122628), and is a Company registered in England and Wales (No. 01426546) whose registered address is 20 Old Bailey, London, EC4M 7BF, is a registered investment adviser with the SEC (Baring International Investment Limited also relies on section 8.26 of NI 31-103 (international adviser exemption) and has filed the Form 31-103F2 in Quebec and Manitoba;

Barings Real Estate Advisers Europe Finance LLP, which is authorized and regulated by the Financial Conduct Authority in the United Kingdom (Ref No. 401543); or

BREAE AIFM LLP, which is authorized and regulated by the Financial Conduct Authority in the United Kingdom (Ref No. 709904);

Baring Fund Managers Limited, which is authorized as a manager of collective investment schemes with the Financial Conduct Authority in the United Kingdom and is authorized as an Alternative Investment Fund Manager in several European Union jurisdictions under the Alternative Investment Fund Managers Directive (AIFMD) passport regime;

Baring International Fund Managers (Ireland) Limited, which is authorized as an Alternative Investment Fund Manager in several European Union jurisdictions under the Alternative Investment Fund Managers Directive (AIFMD) passport regime and, since April 28, 2006, as a UCITS management company with the Central Bank of Ireland;

Baring Asset Management Switzerland Sarl, which is authorized by the Switzerland Financial Market Supervisory Authority to offer and/or distribute collective capital investments;

Barings Australia Pty Ltd (ACN 140 045 656), which is authorized to offer financial services in Australia under its Australian Financial Services License (No: 342787) issued by the Australian Securities and Investments Commission;

Baring Asset Management (Asia) Limited, which is licensed by the Securities and Futures Commission of Hong Kong to carry on regulated activities Type 1 (dealing in securities), Type 2 (dealing in futures contracts), Type 4 (advising on securities), Type 5 (advising on futures contracts) and Type 9 (asset management) in Hong Kong in accordance with the requirements set out in the Securities and Futures Ordinance (Cap 571);

Barings Japan Limited, which is registered as a Financial Business Operator (Registration No. 396-KLFB) for Type II Financial Instruments Business, Investment Advisory and Agency Business, and Investment Management Business with the Financial Services Agency in Japan under the Financial Instruments and Exchange Act (Act No. 25 of 1948); Baring SICE (Taiwan) Limited, an independently operated business (Business license number: 2008 FSC- SICE- Xin- 030; Address: 21 F, No.333, Sec. 1 Keelung Road, Taipei 11012; Taiwan Contact telephone number: 0800 062 068); or Baring Asset Management Korea Limited, which is authorized by the Korean Financial Services Commission to engage in collective investment business and is registered with the Korean Financial Services Commission to engage in privately placed collective investment business for professional investors, discretionary investment business and advisory business.

Copyright

Copyright in this document is owned by Barings. Information in this document may be used for your own personal use, but may not be altered, reproduced or distributed without Barings' consent.