

# AN AFFORDABLE APPROACH TO RESIDENTIAL INVESTMENT

October 2021

## IN A NUTSHELL

- \_ Most major markets in Europe have seen household formations grow at a faster rate than dwellings over the past 10 years.
- \_ Young people moving to cities for employment are struggling with affordability to an even greater extent.
- \_ Rising unaffordability presents risks as well as opportunities for investors. Risks include changing regulation and potentially higher tenant turnover. Opportunities lie in investing in affordable housing, contributing to easing issues of undersupply.
- \_ Affordable housing can deliver attractive returns in terms of a stable income stream and capital value growth.

Increasing numbers of people are struggling to find affordable housing across Europe. At the root of the issue is a structural demand/supply imbalance: household formations outpaced completions of new housing stock in Europe over the past decade. Homeownership has become increasingly unattainable with rising house prices, higher deposit requirements and reduced mortgage availability since the Global Financial Crisis. An increased shift to rental accommodation – especially by younger generations – coupled with a structural housing undersupply has put pressure on the rental market, and ultimately pushing up rents.

## Structural undersupply of housing

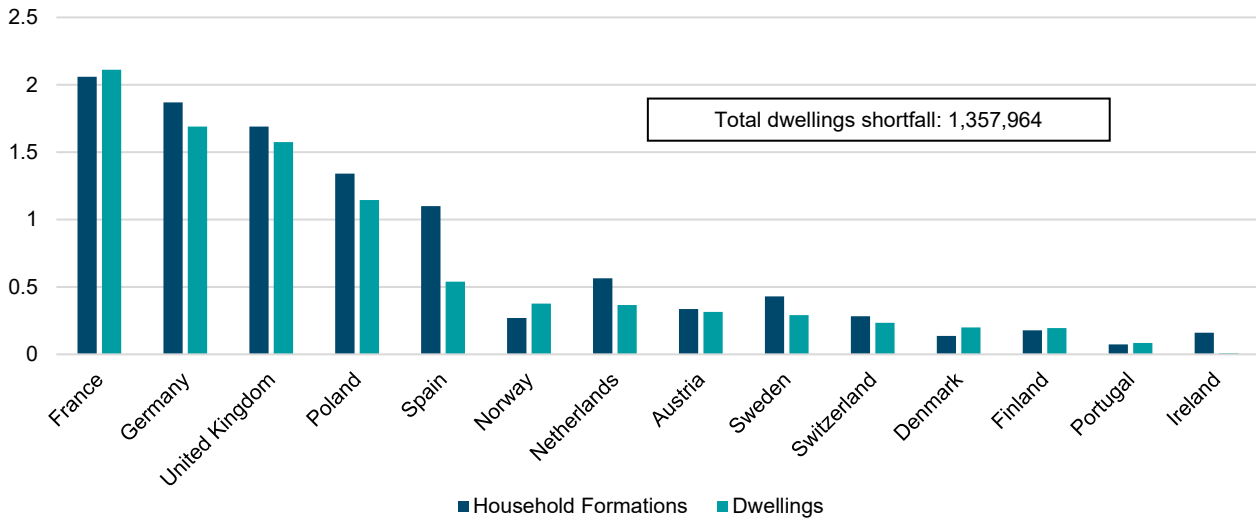
Most major markets in Europe have seen household formations grow at a faster rate than dwellings over the past 10 years. In Europe there is a shortfall of around 1.4 million dwellings since 2011. The problem is especially acute in Germany, the United Kingdom, the Netherlands, and Spain.

The brand DWS represents DWS Group GmbH & Co. KGaA and any of its subsidiaries, such as DWS Distributors, Inc., which offers investment products, or DWS Investment Management Americas, Inc. and RREEF America L.L.C., which offer advisory services. There may be references in this document which do not yet reflect the DWS Brand.

Please note certain information in this presentation constitutes forward-looking statements. Due to various risks, uncertainties and assumptions made in our analysis, actual events or results or the actual performance of the markets covered by this presentation report may differ materially from those described. The information herein reflects our current views only, is subject to change, and is not intended to be promissory or relied upon by the reader. There can be no certainty that events will turn out as we have opined herein.

In EMEA for Professional Clients (MiFID Directive 2014/65/EU Annex II) only; no distribution to private/retail customers. In Switzerland for Qualified Investors (art. 10 Para. 3 of the Swiss Federal Collective Investment Schemes Act (CISA)). In APAC for institutional investors only. Australia and New Zealand: For Wholesale Investors only. In the Americas for Institutional Client and Registered Rep use only, not for public viewing or distribution. Israel: For Qualified Clients (Israeli Regulation of Investment Advice, Investment Marketing and Portfolio Management Law 5755-1995). \*For investors in Bermuda: This is not an offering of securities or interests in any product. Such securities may be offered or sold in Bermuda only in compliance with the provisions of the Investment Business Act of 2003 of Bermuda which regulates the sale of securities in Bermuda.

**DWELLINGS AND HOUSEHOLD FORMATIONS, MILLIONS, 2011-2020**



Source: Oxford Economics, September 2021; OECD Questionnaire on Affordable and Social Housing & Eurostat, 2021. Note: data runs from 2011-2018 for Switzerland and Germany.

The issue of undersupply is particularly apparent in major metropolitan areas, yet ongoing urbanisation and falling household sizes suggest demand for housing in cities will continue to grow. The percentage of Europe’s population living in urban areas today is approximately 72%<sup>1</sup> but by 2050, it is expected to rise to 76%.<sup>2</sup> At the same time, average household size is forecast to decline by 4%. These trends combined have added an estimated 6.9 million households to Europe’s major cities since 2010 and are expected to add another 4.5 million by the end of this decade.<sup>3</sup>

This presents a particular problem for young people moving to cities for employment. The CBRE Global Millennials Survey found that 74% of those surveyed thought that wages are not keeping up with house prices and 50% were living at home due to lack of residential affordability.<sup>4</sup>

Financial factors have exacerbated house price growth. Central bank interest rates in the Euro area have fallen since the 2008 Global Financial Crisis, and have remained at 0% since 2016.<sup>5</sup> The cost of borrowing for house purchases has correspondingly declined, from an average of 3.4% in 2010 to 1.3% in 2021, allowing households to borrow more towards their purchase.<sup>6</sup>

As a result of excess demand relative to supply and changing financial conditions, house price growth has averaged almost 5% p.a. across the EU over the past 5 years: well in excess of household income growth. The consequence is a move towards renting. Home ownership across the EU has declined by 1.6 percentage points from 2010 to 2019, and by as much as 5 percentage points in the United Kingdom.<sup>7</sup>

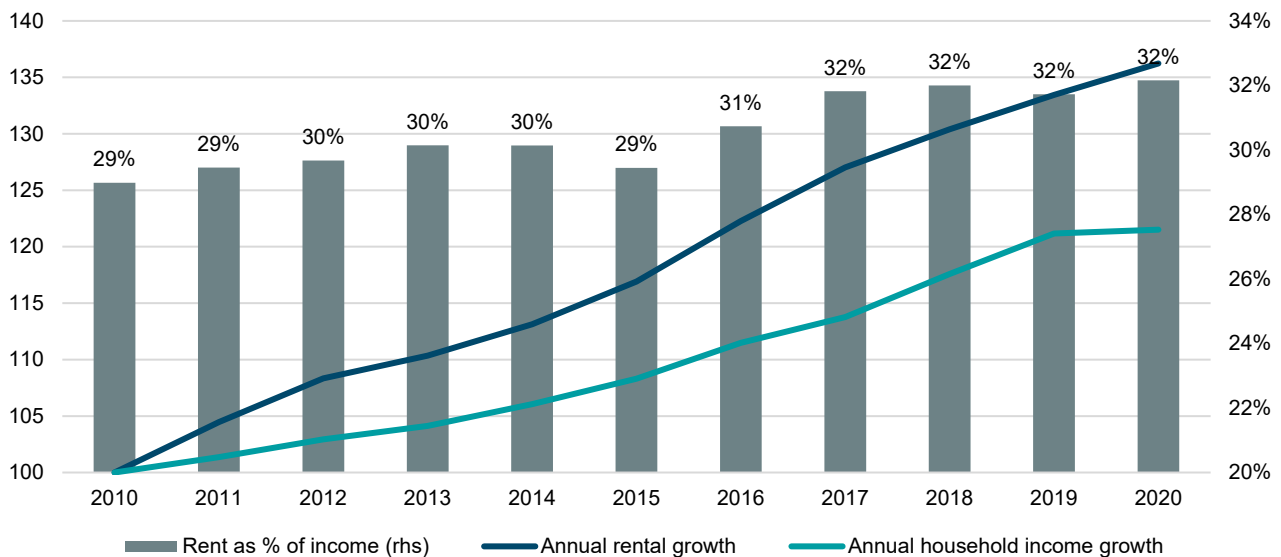
<sup>1</sup> European Investment Bank, October 2018  
<sup>2</sup> European Commission, September 2021  
<sup>3</sup> Oxford Economics, September 2021  
<sup>4</sup> CBRE, Global Millennials Survey, 2016  
<sup>5</sup> Trading Economics, September 2021  
<sup>6</sup> European Central Bank, September 2021  
<sup>7</sup> Eurostat, February 2021

This information is subject to change at any time, based upon economic, market and other considerations and should not be construed as a recommendation. Past performance is not indicative of future returns. Forecasts are not a reliable indicator of future performance. Forecasts are based on assumptions, estimates, opinions, and hypothetical models that may prove to be incorrect. Investments come with risk. The value of an investment can fall as well as rise and your capital may be at risk. You might not get back the amount originally invested at any point in time. Source: DWS Investment GmbH

## The rental affordability problem

The shift of demand towards rented accommodation has caused affordability issues. Rental growth for the main metropolitan areas over the past five years has averaged over 3%,<sup>8</sup> compared to nominal household disposable income growth of less than 2%.<sup>9</sup> In some markets rents have risen at an even faster pace. For example, in Stuttgart, Munich, Dublin, and Madrid, average rental growth has exceeded 5% since 2016. The Covid-19 pandemic triggered a rental correction in a handful of markets, however rental growth continued in most cities, averaging around 2% in 2020 across Europe.

### RENT AND HOUSEHOLD INCOME GROWTH, INDEX. 100=2010



Source: Oxford Economics, September 2021; DWS, July 2021

## Why invest in affordable housing?

For investors, the rising disparities in affordability present both an opportunity and a problem. Rising rents drive investment returns but can also contribute to increased tenant turnover and vacancy, as well as regulatory risk. A number of markets in Europe have either already implemented or are considering forms of rent control. Dublin, Paris, and Barcelona now have regulation aimed at curbing rental growth and rent controls have been suggested or imposed in cities including Berlin, Stockholm, and Amsterdam.

Targeting the affordable segment of the market can help reduce these risks, as well as deliver attractive returns:

- **Attractive, stable income:** Rental income for affordable housing is expected to grow in line with household disposable income in the range of 2-3% for Europe. Over the next decade, this is generally forecast to be more attractive than retail, office, and even corridor logistics rental growth. Affordable residential schemes often experience lower churn rates. Lower rates of tenant turnover not only reduce void periods but also other costs such as reletting fees and refurbishment requirements.
- **Expectations of total return outperformance:** Residential schemes in affordable locations often attract a better income return as capital values relative to rent are lower and may offer further scope for capital value growth. Forward funding

<sup>8</sup> DWS, July 2021

<sup>9</sup> Oxford Economics, September 2021

residential projects generally attracts a higher ingoing yield to compensate for any development risk, foregone income, and letting risk.

**Provide a positive impact:** Total expenditure on housing development in the EU has declined by 44%, from €48 billion in 2009 to €28 billion in 2015, leaving a considerable funding shortfall.<sup>10</sup> In addition, within the EU 42% of non-residential buildings and 38% of residential buildings were built pre-1970, before the widespread adoption of energy efficiency measures.<sup>11</sup> There is therefore considerable scope for the private sector to fund the growth of affordable, high-quality and energy-efficient stock for the rental market.

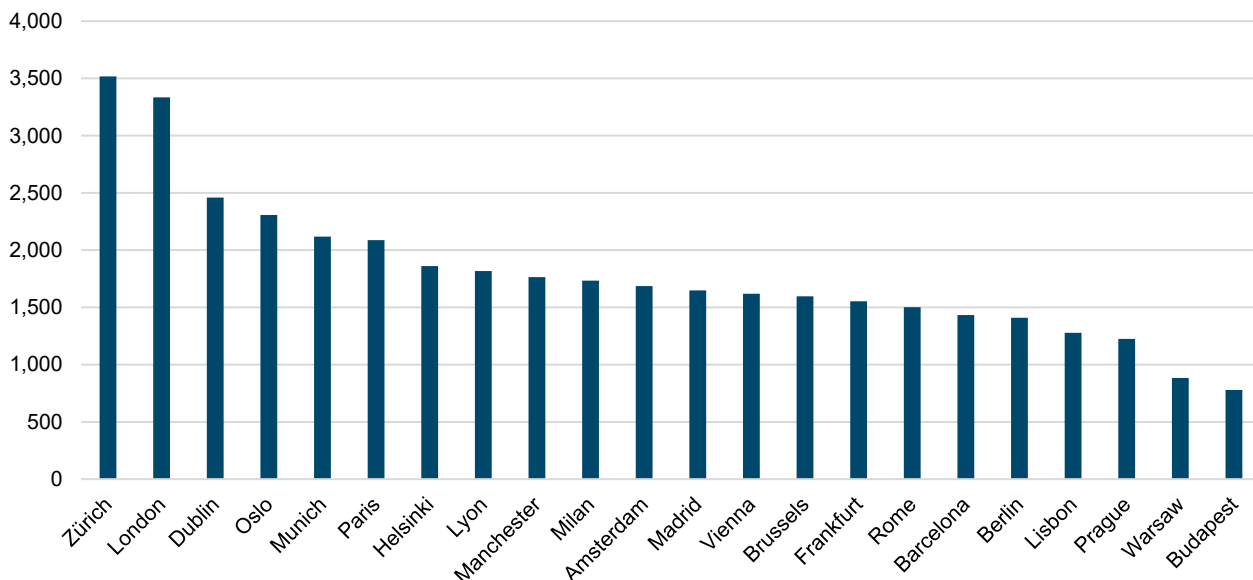
## Defining an affordable residential investment

The challenge from an ESG perspective is how to benefit from the shortfall in rented accommodation and strong rental growth trends without exacerbating affordability issues.

DWS has been investing in affordable residential for over a decade, having commenced its residential investment programme in Germany. In targeting and operating affordable housing in mature markets such as Germany, the Netherlands and the Nordics, it has been possible to develop a framework to invest in the newer markets such as Spain, the United Kingdom and Ireland. This provides a basic screen to ensure investments are likely to be affordable for the target market at acquisition and disposal.

Our framework starts with the Eurostat definition of housing cost unaffordability. This definition assumes housing costs are unaffordable when they exceed 40% of household disposable incomes. Using data on average household disposable income by city, it is possible to screen out individual assets as being unaffordable when the rent exceeds the 40% threshold.

### MAXIMUM AFFORDABLE RENTS (€, 40% OF MONTHLY HOUSEHOLD DISPOSABLE INCOME)



Source: Oxford Economics, September 2021

After this initial screening, in markets where there is greater transparency, it is possible to adjust our analysis further to compensate for expected incomes at a sub-market level. We are also able to adjust for differing propensities for multiple earners to share an apartment. In especially supply constrained markets such as Dublin and London, it is possible to assume

<sup>10</sup> National Housing Federation, October 2017

<sup>11</sup> RICS, July 2020

This information is subject to change at any time, based upon economic, market and other considerations and should not be construed as a recommendation. Past performance is not indicative of future returns. Forecasts are not a reliable indicator of future performance. Forecasts are based on assumptions, estimates, opinions, and hypothetical models that may prove to be incorrect. Investments come with risk. The value of an investment can fall as well as rise and your capital may be at risk. You might not get back the amount originally invested at any point in time. Source: DWS Investment GmbH

a degree of cost sharing between multiple earners. Instead of assuming that most one-bed apartments in a scheme will be rented by a single earner, it is possible to assume that half will be rented by couples.

We then calculate affordability for the present and the end of the holding period, using forecasts for rental growth and household disposable incomes.

At a market level, the 40% screen allows a tighter focus on submarkets within cities where residential schemes are more affordable for the local population. These locations are also likely to experience stronger population growth. For example, inner Paris has been losing population at a rate of about 0.5% p.a. over the past 5 years, while the wider Ile-de-France region – which includes affordable suburban markets – has gained population at a rate of 0.3%.<sup>12</sup>

Some markets are highly regulated, which can distort market pricing and complicate defining an asset or unit as affordable. Regulation can vary across Europe from limiting rental uplifts such as in France to points-based systems such as the Netherlands which limit the rent according to housing quality.

In these instances, we would still apply an affordability screen. This is on the basis that market regulation is present to address an issue of unaffordability, and investment in affordable housing in these markets is still necessary.

## Conclusion

In developing a framework to measure affordability, it is possible to deploy capital in the residential market with a view to adding to the supply of accommodation that residents can afford to rent. In addition, keeping rents affordable is likely to support long term occupancy rates and a stable income return throughout market cycles. Hence, institutional investors can be part of the solution to the problems of affordability in Europe's major cities while realising investment objectives.

<sup>12</sup> Oxford Economics, September 2021

# Research & Strategy—Alternatives

## OFFICE LOCATIONS:

### Chicago

222 South Riverside Plaza  
34<sup>th</sup> Floor  
Chicago  
IL 60606-1901  
United States  
Tel: +1 312 537 7000

### Frankfurt

Mainzer Landstrasse 11-17  
60329 Frankfurt am Main  
Germany  
Tel: +49 69 71909 0

### London

Winchester House  
1 Great Winchester Street  
London EC2N 2DB  
United Kingdom  
Tel: +44 20 754 58000

### New York

875 Third Avenue  
26<sup>th</sup> Floor  
New York  
NY 10022-6225  
United States  
Tel: +1 212 454 3414

### San Francisco

101 California Street  
24<sup>th</sup> Floor  
San Francisco  
CA 94111  
United States  
Tel: +1 415 781 3300

### Singapore

One Raffles Quay  
South Tower  
20<sup>th</sup> Floor  
Singapore 048583  
Tel: +65 6538 7011

### Tokyo

Sanno Park Tower  
2-11-1 Nagata-cho  
Chiyoda-Ku  
18<sup>th</sup> Floor  
Tokyo  
Japan  
Tel: +81 3 5156 6000

## TEAM:

Global

### Kevin White, CFA

Global Co-Head of Real Estate Research

### Simon Wallace

Global Co-Head of Real Estate Research

### Gianluca Minella

Head of Infrastructure Research

Americas

### Brooks Wells

Head of Research, Americas

### Liliana Diaconu, CFA

Office Research

### Ross Adams

Industrial Research

### Ryan DeFeo

Property Market Research

### Ana Leon

Retail Research

### Joseph Pecora, CFA

Apartment Research

Europe

### Tom Francis

Property Market Research

### Siena Golan

Property Market Research

### Rosie Hunt

Property Market Research

### Martin Lippmann

Property Market Research

### Aizhan Meldebek

Infrastructure Research

### Ruben Bos, CFA

Property Market Research

Asia Pacific

### Koichiro Obu

Head of Real Estate Research, Asia Pacific

### Natasha Lee

Property Market Research

### Seng-Hong Teng

Property Market Research

### Hyunwoo Kim

Property Market Research

---

## The authors



**Simon Wallace**  
Global Co-Head of Real Estate Research



**Siena Golan**  
Property Market Research

This information is subject to change at any time, based upon economic, market and other considerations and should not be construed as a recommendation. Past performance is not indicative of future returns. Forecasts are not a reliable indicator of future performance. Forecasts are based on assumptions, estimates, opinions, and hypothetical models that may prove to be incorrect. Investments come with risk. The value of an investment can fall as well as rise and your capital may be at risk. You might not get back the amount originally invested at any point in time. Source: DWS Investment GmbH

## IMPORTANT INFORMATION

### For North America:

The brand DWS represents DWS Group GmbH & Co. KGaA and any of its subsidiaries, such as DWS Distributors, Inc., which offers investment products, or DWS Investment Management Americas, Inc. and RREEF America L.L.C., which offer advisory services.

This material was prepared without regard to the specific objectives, financial situation or needs of any particular person who may receive it. It is intended for informational purposes only. It does not constitute investment advice, a recommendation, an offer, solicitation, the basis for any contract to purchase or sell any security or other instrument, or for DWS or its affiliates to enter into or arrange any type of transaction as a consequence of any information contained herein. Neither DWS nor any of its affiliates gives any warranty as to the accuracy, reliability or completeness of information which is contained in this document. Except insofar as liability under any statute cannot be excluded, no member of the DWS, the Issuer or any office, employee or associate of them accepts any liability (whether arising in contract, in tort or negligence or otherwise) for any error or omission in this document or for any resulting loss or damage whether direct, indirect, consequential or otherwise suffered by the recipient of this document or any other person.

The views expressed in this document constitute DWS Group's judgment at the time of issue and are subject to change. This document is only for professional investors. This document was prepared without regard to the specific objectives, financial situation or needs of any particular person who may receive it. No further distribution is allowed without prior written consent of the Issuer.

Investments are subject to risk, including market fluctuations, regulatory change, possible delays in repayment and loss of income and principal invested. The value of investments can fall as well as rise and you might not get back the amount originally invested at any point in time.

An investment in real assets involves a high degree of risk, including possible loss of principal amount invested, and is suitable only for sophisticated investors who can bear such losses. The value of shares/ units and their derived income may fall or rise.

War, terrorism, economic uncertainty, trade disputes, public health crises (including the recent pandemic spread of the novel coronavirus) and related geopolitical events could lead to increased market volatility, disruption to U.S. and world economies and markets and may have significant adverse effects on the global real estate markets.

For Investors in Canada. No securities commission or similar authority in Canada has reviewed or in any way passed upon this document or the merits of the securities described herein and any representation to the contrary is an offence. This document is intended for discussion purposes only and does not create any legally binding obligations on the part of DWS Group. Without limitation, this document does not constitute an offer, an invitation to offer or a recommendation to enter into any transaction. When making an investment decision, you should rely solely on the final documentation relating to the transaction you are considering, and not the [document – may need to identify] contained herein. DWS Group is not acting as your financial adviser or in any other fiduciary capacity with respect to any transaction presented to you. Any transaction(s) or products(s) mentioned herein may not be appropriate for all investors and before entering into any transaction you should take steps to ensure that you fully understand such transaction(s) and have made an independent assessment of the appropriateness of the transaction(s) in the light of your own objectives and circumstances, including the possible risks and benefits of entering into such transaction. You should also consider seeking advice from your own advisers in making this assessment. If you decide to enter into a transaction with DWS Group, you do so in reliance on your own judgment. The information contained in this document is based on material we believe to be reliable; however, we do not represent that it is accurate, current, complete, or error free. Assumptions, estimates, and opinions contained in this document constitute our judgment as of the date of the document and are subject to change without notice. Any projections are based on a number of assumptions as to market conditions and there can be no guarantee that any projected results will be achieved. Past performance is not a guarantee of future results. The distribution of this document and availability of these products and services in certain jurisdictions may be restricted by law. You may not distribute this document, in whole or in part, without our express written permission.

### For EMEA, APAC & LATAM:

DWS is the brand name of DWS Group GmbH & Co. KGaA and its subsidiaries under which they do business. The DWS legal entities offering products or services are specified in the relevant documentation. DWS, through DWS Group GmbH & Co. KGaA, its affiliated companies and its officers and employees (collectively "DWS") are communicating this document in good faith and on the following basis.

This document is for information/discussion purposes only and does not constitute an offer, recommendation, or solicitation to conclude a transaction and should not be treated as investment advice.

This document is intended to be a marketing communication, not a financial analysis. Accordingly, it may not comply with legal obligations requiring the impartiality of financial analysis or prohibiting trading prior to the publication of a financial analysis.

This document contains forward looking statements. Forward looking statements include, but are not limited to assumptions, estimates, projections, opinions, models and hypothetical performance analysis. No representation or warranty is made by DWS as to the reasonableness or completeness of such forward looking statements. Past performance is no guarantee of future results.

The information contained in this document is obtained from sources believed to be reliable. DWS does not guarantee the accuracy, completeness or fairness of such information. All third party data is copyrighted by and proprietary to the provider. DWS has no obligation to update, modify or amend this document or to otherwise notify the recipient in the event that any matter stated herein, or any opinion, projection, forecast or estimate set forth herein, changes or subsequently becomes inaccurate.

Investments are subject to various risks. Detailed information on risks is contained in the relevant offering documents.

No liability for any error or omission is accepted by DWS. Opinions and estimates may be changed without notice and involve a number of assumptions which may not prove valid.

DWS does not give taxation or legal advice.

This document may not be reproduced or circulated without DWS's written authority.

This document is not directed to, or intended for distribution to or use by, any person or entity who is a citizen or resident of or located in any locality, state, country or other jurisdiction, including the United States, where such distribution, publication, availability or use would be contrary to law or regulation or which would subject DWS to any registration or licensing requirement within such jurisdiction not currently met within such jurisdiction. Persons into whose possession this document may come are required to inform themselves of, and to observe, such restrictions.

© 2021 DWS International GmbH

Issued in the UK by DWS Investments UK Limited which is authorised and regulated by the Financial Conduct Authority (Reference number 429806).

© 2021 DWS Investments UK Limited

In Hong Kong, this document is issued by DWS Investments Hong Kong Limited and the content of this document has not been reviewed by the Securities and Futures Commission.

© 2021 DWS Investments Hong Kong Limited

This information is subject to change at any time, based upon economic, market and other considerations and should not be construed as a recommendation. Past performance is not indicative of future returns. Forecasts are not a reliable indicator of future performance. Forecasts are based on assumptions, estimates, opinions, and hypothetical models that may prove to be incorrect. Investments come with risk. The value of an investment can fall as well as rise and your capital may be at risk. You might not get back the amount originally invested at any point in time. Source: DWS Investment GmbH



In Singapore, this document is issued by DWS Investments Singapore Limited and the content of this document has not been reviewed by the Monetary Authority of Singapore.

© 2021 DWS Investments Singapore Limited

In Australia, this document is issued by DWS Investments Australia Limited (ABN: 52 074 599 401) (AFSL 499640) and the content of this document has not been reviewed by the Australian Securities Investment Commission.

© 2021 DWS Investments Australia Limited

For investors in Bermuda: This is not an offering of securities or interests in any product. Such securities may be offered or sold in Bermuda only in compliance with the provisions of the Investment Business Act of 2003 of Bermuda which regulates the sale of securities in Bermuda. Additionally, non-Bermudian persons (including companies) may not carry on or engage in any trade or business in Bermuda unless such persons are permitted to do so under applicable Bermuda legislation.

For investors in Taiwan: This document is distributed to professional investors only and not others. Investing involves risk. The value of an investment and the income from it will fluctuate and investors may not get back the principal invested. Past performance is not indicative of future performance. This is a marketing communication. It is for informational purposes only. This document does not constitute investment advice or a recommendation to buy, sell or hold any security and shall not be deemed an offer to sell or a solicitation of an offer to buy any security. The views and opinions expressed herein, which are subject to change without notice, are those of the issuer or its affiliated companies at the time of publication. Certain data used are derived from various sources believed to be reliable, but the accuracy or completeness of the data is not guaranteed, and no liability is assumed for any direct or consequential losses arising from their use. The duplication, publication, extraction, or transmission of the contents, irrespective of the form, is not permitted.

© 2021 DWS Group GmbH & Co. KGaA. All rights reserved. (10/21) 085912\_1

This information is subject to change at any time, based upon economic, market and other considerations and should not be construed as a recommendation. Past performance is not indicative of future returns. Forecasts are not a reliable indicator of future performance. Forecasts are based on assumptions, estimates, opinions, and hypothetical models that may prove to be incorrect. Investments come with risk. The value of an investment can fall as well as rise and your capital may be at risk. You might not get back the amount originally invested at any point in time. Source: DWS Investment GmbH