ACTIVE CAPITAL

TRENDS IN GLOBAL REAL ESTATE INVESTMENT
Welcome to Active Capital offers a unique perspective on the outlook for global real estate investment: from our forecasts of capital flows to our analysis of the most pressing strategic considerations, this research is designed to help you understand the myriad of forces at play.

Built upon thousands of data points, machine learning, and purpose-built modelling processes, our findings are combined with ‘on the ground’ insights from our brokers and advisors throughout our global partnership.

Cross-border investment is back, and we predict that 2022 will see a record year of activity. The US, the UK, Germany, France, and the Netherlands are set to be the most popular destinations for real estate investment capital, and the office sector is forecast to welcome over half of all cross-border investment volumes in 2022, driven by income-focused strategies. The retail and hotel sectors are also likely to rebound, while private equity funds and investment managers chase the ever-growing logistics sector. Indeed, as the world learns to live with the pandemic, we expect an extended period of resurgence in global real estate investment.

Meanwhile, as the world works against the clock on a climate recovery plan, the themes encompassed within ESG (Environmental, Social, and Governance) have never been of greater importance. With the wider industry accounting for 40% of global carbon emissions, real estate must play a critical role in safeguarding our future. In this edition of Active Capital, we set out to quantify the implications for investors at a city, corporate, building, and finance level.

As we look out over our forecast period, we predict both a more active and a more responsible global real estate investment market: one in which leading decision makers will balance the imperatives of sustainability with the ambitions of growth.

“We predict both a more active and a more responsible global real estate investment market.”
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In addition to our annual capital flow predictions, this year’s report takes a deep dive into the factors that make a city sustainable, and we introduce our index of the world’s most sustainable cities for real estate investors.

We quantify the extent to which green credentials increase building value, we track the global rise of green finance, and we analyse the impact of E, S and G measurements on corporate performance.

2022 is forecast to be a record year for global cross-border real estate volumes. Globally, the office sector is expected to attract over 50% of all cross-border investment volumes.

Top destinations for cross-border capital:
- United States
- United Kingdom
- Germany
- France
- Netherlands

London, Shanghai, New York, Paris, and Washington DC are the top green rated cities.

Hotels are forecast to see heightened demand in 2022, with particular interest from private equity investors.

We found an 8-18% sales price premium for green-rated buildings compared to equivalent buildings without a BREEAM or NABERS rating across London, Sydney, and Melbourne.
SECTION 1
CAPITAL GRAVITY

FORECASTING GLOBAL CROSS-BORDER CAPITAL FLOWS

Our Capital Gravity model forms one of the cornerstones of our Active Capital research. Now in its sixth year, we have used the latest machine learning techniques and unique datasets to predict where real estate capital will flow in 2022 and beyond. For the first time, we have been able to extend our forecasts beyond geographical destinations and into investor and sector types. The following pages highlight some of the trends we predict for 2022 and beyond.

SECTORS

OFFICES
The office investment market is alive. 2022 is expected to be a bumper year for activity, with the highest demand from income-focused investment managers and institutions targeting the US, the UK, Germany, France, and the Netherlands.

LOGISTICS
Investment managers and private equity funds, particularly from the US and Canada, are forecast to remain major players in the logistics market in 2022, particularly targeting the US, the UK, Germany, France, the Netherlands, and Greater China, as well as Spain, Poland, and Australia.

RETAIL
2022 could see interest from investment managers and listed/REITs investing into destinations across the globe, notably the UK, Germany, and the UK, France, the Netherlands, Italy, Poland, Spain, and Japan could also see inbound investor interest.

RESIDENTIAL
The broader residential sector is an increasing area of interest, right across the investor spectrum. Sources of capital are likely to be broad based, targeting a geographically diverse area, including the US, Germany, the UK, the Netherlands, and Japan.

HOTELS
Hotels are likely to see a record year in 2022, with particular interest from private equity investors, who could contribute to almost half of volumes next year, targeting the UK and the US.

STUDENT HOUSING
Interest from investment managers is expected to grow over the next few years, while private equity is likely to make up more than half of investment demand in 2022.

INVESTOR TYPES

PRIVATE EQUITY
Our forecasts show that private equity investment will continue to be dominated by US players in 2022, targeting a wide range of sectors in the UK, as well as the office sector across a diverse set of destinations – from India to Germany.

INVESTMENT MANAGERS
We predict that investment managers will increase their investment into EMEA, while overall global cross-border investment from this group could lift by 50% in 2022 from 2021. Over half of capital from investment managers is forecast to be from the US and Canada in 2022 (with other top players including the UK, Germany, and Switzerland) targeting the office and residential sectors.

INSTITUTIONS
Our model suggests that for institutions, the office, residential and industrial sectors will be the top three sectors of interest in 2022, with a globally spread range of sources and destinations of capital across the Americas, EMEA, and APAC.

LISTED/REITS
Listed real estate companies and REITs will have some of the most diverse appetites in 2022, with investors from Canada, the US, Singapore, Greater China, the UK, and Australia targeting sectors across office, retail, industrial, residential and hotels.

HNWI
Half of HNWI (high-net-worth individuals) capital is predicted to come from EMEA in 2022, notably including Spain and Israel. The US is also forecast to be a top source of HNWI investment, targeting largely office and retail assets.

OTHER INVESTOR TYPES
Banks, sovereign wealth funds, and corporates based in Greater China, the UK, Canada, and France, will be important sources of capital, focusing in particular on the office and retail sectors.
The figures shown represent the total inbound and outbound values of the top 20 investment flows.

Source: Knight Frank
Last year, our Capital Gravity model predicted that in 2021, the US would be the top destination for global cross-border real estate capital, followed by the UK, Germany, Australia, and France. Now, as we watch the US and the UK vie for the top spot at the time of writing, followed by Germany, Australia, and France, we can see that our forecasts passed the predictive test.

**2022 PREDICTIONS AT A GLANCE**

We predict that 2022 will be a record year for capital flows, with the US, the UK, Germany, France, and the Netherlands forecast to be the most popular destinations for that capital. We expect a resurgence of interest in the office sector, as well as continued growth in residential and industrial investment. The US, Canada, the UK, and Germany are forecast to be the largest sources of cross-border capital, dominated by investment managers, institutions, and private equity investors.

**WHERE WILL CAPITAL FLOW TO IN 2022?**

As the world moves into the next phase of living with Covid-19, we could see a period of elevated volumes. Indeed, we forecast that 2022 will be a record year for global cross-border real estate investment.

The largest increases in activity are likely to be seen in EMEA and APAC, with EMEA predicted to be the top region of interest next year. While overall investment into the Americas is expected to moderate, the US is forecast to remain the number one destination for inbound capital over the coming year, as well as the largest global deployer of capital.

Our forecasts show that UK offices are expected to be a top destination for US capital, driven particularly by private equity as they invest into new markets and ride the recovery. In addition to UK offices, US private equity money is forecast to target the core European markets of Germany, France, and Spain, as well as further afield in Japan and India.

Overall, the office sector globally is expected to account for just over half of all cross-border investment volumes, indicating that interest in this sector remains very much alive, even as we continue to see a rotation of assets by investors, particularly private equity, into the industrial, residential, life sciences, and data centres sectors.

Investment managers and institutional investors are expected to lead the demand for office assets, while HNWIs will demonstrate strong interest too, particularly into the UK and US office markets.

On the other hand, while listed REITs and private equity investors are likely to increase their investment into offices, the two investor types are forecast to account for less than 40% of total cross-border investment volumes into the sector. This is likely because REITs are becoming more specialised, and private equity investors are investing into sectors which capture structural changes, such as industrial, residential, data centres, and life sciences. Private equity, investment managers, and institutions are also expected to have a focus on the industrial sector in EMEA, which should lead to a bumper year for inbound investment, particularly into the UK, Germany, France, and the Netherlands.

The past year has illustrated the relative resilience of real estate as an asset class, albeit with a bifurcation in performance between those well-located, sustainable, core assets and the rest. Our Capital Gravity model suggests that while the next few years will see a boost in investment volumes, 2022 is likely to see a sharp rise in activity, providing investors the opportunity to rebalance portfolios, execute business plans and further their strategic goals.

**WHAT OTHER FACTORS COULD INFLUENCE CAPITAL FLOWS IN 2022?**

**ASSET ROTATION**

Assuming a five-year hold, transaction activity in 2017 helps indicate the level of asset rotation we might see in 2022. Global volumes in 2017 were circa 11% above the long-term average. Given that some assets purchased in 2016 and earlier are also likely to have been held back from sale through the pandemic, asset rotation could be a significant contributor to assets coming to the market in 2022.

**CURRENCY AND HEDGING**

Currency hedging benefits for US investors into the UK and Europe remain muted compared to levels seen pre-pandemic, while both the Euro and Sterling have seen moderate strengthening against currencies such as the USD and KOR over the course of the past year or so. Currently, there are few indications of significant appreciation, but if this were to change, assets across Europe could become relatively more expensive compared to those in the US and Asia-Pacific.

**VIEWS ON INFLATION**

Debate over the trajectory of global inflation is leading to some degree of oscillation of government bond yields. However, they remain below pre-pandemic levels and are unlikely to put outwards pressure on property yields in the medium term. The concern is that inflation should be transitory, albeit there are questions around the risk of cost-push inflation. Real estate is seen by some investors as an inflation hedge which means an inflationary environment could boost demand.

**RECOVERY FROM THE PANDEMIC**

The next phase of the Covid-19 pandemic involves learning to live with it, supported by the ongoing global vaccination programme. There remains the risk of a ‘vaccine busting’ variant which could introduce new headwinds to recovery, however, at the time of writing, markets are cautiously optimistic and forecasting a post-pandemic bounce in activity in 2022.

**ESG**

Sustainability is an increasingly global focus for real estate investors, and we expect this to spur capital flows towards green-rated buildings and buildings which have the potential to be made ‘green’ over the coming year. As embodied or lifecycle carbon emissions gain importance for investors, 2022 could also see more interest in asset repurposing and refurbishment opportunities.
IN THIS CHAPTER

2.1 SUSTAINABLY LED CITIES
We take a deep dive into the factors that make a city sustainable, distilling more than 150,000 data points into scores for the amount of green space, resource use per person, climate change-reducing initiatives, climate risk, and urbanisation pressures across 286 global cities.

2.2 QUANTIFYING GREEN BUILDING VALUE
We present a hemisphere to hemisphere assessment of the green sales price premium on office buildings in London (UK), Sydney, and Melbourne (Australia). We have used hedonic pricing methods to develop a proprietary model which measures the extent to which green credentials increase building value, controlling for building, lease length, time, and locational factors.

2.3 SUSTAINABLE FINANCE
We share our latest experiences, observations, and predictions on the rise of green finance – a rapidly expanding opportunity and a critical part of the solution to climate change.

2.4 CORPORATE PERFORMANCE AND ESG
We investigate the impact of ESG factors on the performance of global corporate real estate.

WHY DO THESE INSIGHTS MATTER?
These themes transcend geography. While not all countries and markets are currently at the same stage in recognising their importance, they have relevance to all.

The greening of investment and development activities is influencing decision making at the highest levels – from the consideration of environmental obsolescence to green rental premiums, from the use of innovative development materials to beneficial green financing terms – sustainability is already having an enormous impact on asset management and selection.

Likewise, owners and advisors of real estate are increasingly measured and valued on their environmental, social impact and governance standards. A failure to comprehend the forces at play amid the growing importance of ESG poses risks to real estate investors in terms of performance and scrutiny, as well as risks to society at large.

While demand for sustainable investment opportunities is growing, the quantitative benefits that investors, landlords, and developers can reap from targeting ESG have been challenging to measure accurately. That is where this year’s Active Capital adds to investor intelligence: we have quantified the ESG conversation at the city, building, finance, and corporate level.

This year, ESG is central to our Active Capital research, with a particular focus on sustainability. Real estate has a crucial part to play in addressing the climate emergency with implications reaching across every aspect of the global marketplace. A combination of top-level investor pressure, risk mitigation, regulatory changes, and the search for outperformance by investors is driving forward the demand for sustainable real estate around the world. For this reason, we have put our resources into understanding these trends and their implications for the investment market.
2.1 THE SEARCH FOR SUSTAINABLY LED CITIES

INVESTORS ARE INCREASINGLY MINDFUL OF ESG CONSIDERATIONS, WHETHER AT AN INDIVIDUAL BUILDING, PORTFOLIO, OR CORPORATE LEVEL.

This is the result of both a rapid uptick in the benchmarking of ESG metrics and a desire to mitigate exposure to climate risk.

INTRODUCING OUR SUSTAINABLY LED CITIES RESEARCH

The aim of our Sustainably Led Cities research is to help investors understand how the cities they are investing into might influence their benchmarking and risk outcomes. We focus on the environmental rather than social aspects of city sustainability, distilling over 500 variables across 286 global cities, scoring their emissions trajectory (brown sub-score); carbon mitigants (green sub-score); climate risks; and urbanisation pressures, which can be combined into an overall sustainably led cities score.

WHICH CITIES ARE MOST SUSTAINABLE?

Based on our unique index of the considerations most applicable to real estate investors, London, Paris, New York, Seoul, and Tokyo sit as the top five global sustainably led cities for real estate. These cities benefit from a range of factors, such as declining carbon emissions per person; well-developed public transport networks; and a relatively high number of green-rated buildings. For example, London has almost 4,000 BREEAM-rated commercial assets. It is also notable that all of these cities also have universities which are benchmarked against the UN Sustainable Development Goal 11, the strength of research into and contribution to sustainable cities and communities.

However, while all of these cities are making strides in supporting carbon reduction – at least on a relative per person basis – they are not immune to climate risks, as we have seen over the last year. In fact, globally, none of the 286 cities surveyed scored much above six out of ten for resilience against the impacts of climate change, such as extreme weather events.

Some regions are impacted more than others, with cities in the Asia-Pacific region facing some of the higher levels of climate risk. However, the story is not that simple, as many cities and buildings in this region are adapting to the risk of these events. The conclusion here is that investors, almost universally, need to be accounting for the prospect of increased weather events and climate change, and the resulting impact on their portfolios.

The underlying components of these scores are closely aligned to what investors are interested in when benchmarking their portfolios and individual buildings. For example, when considering the sustainability of a building, it is not just the building itself, but where it is located and what surrounds it, such as the availability of public transport, reflected in the green sub-score. By also including the number of green buildings in the green sub-score, this highlights those cities with an established market of investible green assets as well.

THE TOP REGIONAL GREEN CITIES FOR REAL ESTATE

WE HAVE PLOTTED THE GREEN CITY SUB-SCORES AGAINST THE CLIMATE RISK SCORES FOR ALL 286 CITIES, HIGHLIGHTING A SELECTION OF THE TOP GREEN SCORING CITIES FOR EACH REGION.

The scores are between zero and ten. The higher the green score, the more these cities are supportive of green real estate benchmarks. The higher the climate risk score, the less exposure the city has to the effects of climate change.

LEADING GREEN CITIES BY REGION

THE AMERICAS
1. Akron, OH, United States
2. Atlanta, GA, United States
3. Boston, MA, United States
4. Charlotte, NC, United States
5. Chicago, IL, United States
6. Columbus, OH, United States
7. Grand Rapids, MI, United States
8. Kansas City, MO, United States
9. Montreal, Canada
10. New York, NY, United States
11. Orlando, FL, United States
12. Philadelphia, PA, United States
13. Portland, OR, United States
14. Seattle, WA, United States
15. Syracuse, NY, United States
16. Toronto, Canada
17. Vancouver, Canada
18. Washington, DC, United States
19. Worcester, MA, United States

EMEA
1. Bergen, Norway
2. Berlin, Germany
3. Bern, Switzerland
4. Cambridge, United Kingdom
5. Dublin, Ireland
6. Glasgow, United Kingdom
7. Hamburg, Germany
8. Istanbul, Turkey
9. London, United Kingdom
10. Lublin, Poland
11. Madrid, Spain
12. Milan, Italy
13. Moscow, Russia
14. Munich, Germany
15. Oslo, Norway
16. Paris, France
17. Saint Petersburg, Russia
18. Stockholm, Sweden
19. Warsaw, Poland
20. Zurich, Switzerland

ASIA PACIFIC
1. Bangkok, Thailand
2. Beijing, China
3. Chengdu, China
4. Chongqing, China
5. Delhi, India
6. Guangzhou, China
7. Hangzhou, China
8. Hong Kong SAR, China
9. Kuala Lumpur, Malaysia
10. Nagoya, Japan
11. Nanjing, China
12. Seoul, South Korea
13. Shanghai, China
14. Shenzhen, China
15. Singapore, Singapore
16. Suzhou, China
17. Tianjin, China
18. Tokyo, Japan
19. Wuhan, China
20. Xi’an, China

Sources: Knight Frank, Corbane et al. (2018), GARPEDATA, Florczyk et al. (2018), GBIG, Harris et al. (2014), Lloyd’s and Cambridge Centre for Risk Studies, Oxford Economics, THE World University Rankings
The four sub-scores are:

**BROWN**
This is a measure of the change in emissions and resource-use per person over time, as well as the degree of green space within the city. A higher ‘brown’ score suggests that a city has lower total emissions and/or is benefitting from a reduction in emissions per person. Rapidly growing cities may find their emissions per person reducing, even if overall emissions are increasing.

**GREEN**
This includes initiatives reducing climate change, such as the size of the local metro network, the amount of green space, the number of green-rated commercial buildings and the number of universities benchmarked against the UN Sustainable Development Goal 11, related to supporting safe, inclusive, resilient and sustainable cities.

**CLIMATE RISK**
This considers changes in precipitation, temperature, extreme weather events, and estimated exposure to weather and climate-related disasters. The higher the score, the less exposed the city is to climate risk.

**URBANISATION PRESSURES**
This measures the degree of urbanisation and population growth. The higher the score, the less pressure the city faces from rapid growth. Most high scoring cities are large both in terms of population and area and relatively more established.

The conclusion here is that investors, almost universally, need to be accounting for the prospect of increased weather events and climate change, and the resulting impact on their portfolios.
2.2 GREEN BUILDING VALUE

DO GREEN-RATED BUILDINGS ADD A PREMIUM TO SALES PRICE?

The importance of ESG in real estate has been widely publicised. But the precise influence of green credentials on a building's sales price is less well understood. Our research shows that in both hemispheres of the world, green building ratings are already having a positive impact on building values, and we have quantified it.

We combined proprietary Knight Frank data with green ratings and other geographical evidence for prime office buildings in London, Sydney and Melbourne. We found an 8.18% sales price premium for green-rated buildings compared to equivalent unrated buildings. This supports our Sustainability Series research which finds a 3%-13% rental premium, depending on rating for prime Central London office buildings.

In addition to green ratings, the model also reflects building attributes such as size, height, age, whether the building was leasehold or freehold, its grade, and its lease term. Location and distance to railway stations were also included, as well as year of sale, to capture cyclical and other time-specific impacts on sales price. BREEAM ratings range from Pass to Outstanding. Due to a lack of transactional evidence, we excluded buildings with Pass, Good and Outstanding ratings, and compared unrated buildings with BREEAM Very Good and BREEAM Excellent to determine our results.

Using in-house expertise and academic literature to identify possible factors that contribute to sales price, we then used statistical tests to help us build the most representative models for London, Sydney and Melbourne. Including a large number of explanatory variables in the models helps to ensure that the estimated impact of the green rating is robust and accurate. However, to do this, a significant amount of transactional evidence is needed. This is why Knight Frank, as far as we are aware, is the first commercial firm to apply this type of methodology to investment transactions, due to the strength of our proprietary data, which helped us carry out the analysis.

While there are some location-specific differences, there are common contributors to price, which suggests these factors might also be expected to apply to building sales prices in other locations around the world.

The added benefit of this type of modelling is that while we have been able to use the results to identify the contribution of green ratings to sales price, we have also been able to identify the degree to which location, lease term and building related factors contribute to a building’s sales price. As a consequence, we can be confident that the premia identified relate directly to buildings’ green certifications, as influences from other factors are also captured and quantified.

Methodology

We estimated the green premia for office buildings using hedonic price modelling, a popular methodology used in the residential sector to estimate house prices, and in academic eco-certification research. This method of analysis enables the price of an asset to be represented as the sum of its attributes, including features of the building, as well as where it is and what surrounds it.

Using in-house expertise and academic literature to identify possible factors that contribute to sales price, we then used statistical tests to help us build the most representative models for London, Sydney and Melbourne. Including a large number of explanatory variables in the models helps to ensure that the estimated impact of the green rating is robust and accurate. However, to do this, a significant amount of transactional evidence is needed. This is why Knight Frank, as far as we are aware, is the first commercial firm to apply this type of methodology to investment transactions, due to the strength of our proprietary data, which helped us carry out the analysis.

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<table>
<thead>
<tr>
<th>BREEAM Rating</th>
<th>Performance Level</th>
<th>Score Contribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outstanding</td>
<td>Less than top 1% (innovator)</td>
<td>≥ 85% of score</td>
</tr>
<tr>
<td>Excellent</td>
<td>Top 10% (best practice)</td>
<td>≥ 70% of score</td>
</tr>
<tr>
<td>Very Good</td>
<td>Top 25% (advanced good practice)</td>
<td>≥ 55% of score</td>
</tr>
<tr>
<td>Good</td>
<td>Top 50% (intermediate good practice)</td>
<td>≥ 45% of score</td>
</tr>
<tr>
<td>Pass</td>
<td>Top 75% (standard good practice)</td>
<td>≥ 30% of score</td>
</tr>
</tbody>
</table>
Finding sales price premia for office markets on opposite sides of the world indicates that demand for green buildings is a global phenomenon, and one which we expect will see continued growth.

Prime Central London office buildings with a BREEAM Excellent rating enjoy a 10.5% premium on sales price compared to equivalent unrated buildings, while those with a BREEAM Very Good rating enjoy a 10.1% premium.

What is BREEAM?
The first building assessment was undertaken by Watford-based Building Research Establishment in 1990, which has since morphed into BREEAM, one of the most recognised international sustainability assessment methods for master-planning projects, infrastructure, and buildings. It recognises and reflects the value in higher performing assets across the built environment lifecycle, from new construction to in-use and refurbishments.

Prime office buildings in Melbourne and Sydney with a NABERS rating of 5+ enjoy a 17.9% premium on sales price compared to equivalent unrated buildings, while even those with a lower NABERS rating enjoy an 8.3% premium.

What is NABERS?
The National Australian Built Environment Rating Scheme (NABERS) measures the energy efficiency of a building by comparing its energy consumption to averages across the sector.
Our findings show that green ratings on prime offices on average are having a significant impact on sales prices.

WHAT THESE RESULTS MEAN FOR INVESTORS AROUND THE WORLD

Ultimately, our findings show that green ratings on prime offices on average are having a significant impact on sales prices (and even rents in London, as shown by our Sustainability Series), with higher ratings typically resulting in higher monetary benefits.

THE DRIVERS BEHIND THE INCOME EFFECT ON PRICE

On the rental side, our research finds that the most ESG-driven occupiers are willing to pay a rental premium for a building that matches their ethos. While overall occupier demand for green buildings is still somewhat nascent, occupier interest is expected to expand further due to the built environment’s contribution to global carbon emissions. For example, our latest (Y)OUR SPACE survey found that only 8% of almost 400 global occupiers currently believe that real estate supports their ESG strategy while 40% have a stated net carbon emissions target. The type of buildings that occupiers choose to locate is a vital factor in achieving these targets.

Green-rated buildings should also increasingly support income, through increased occupier demand and reduced vacancy rates.

As more and more investors use ESG criteria as a screening tool, demand and therefore liquidity of buildings with green ratings is likely to increase.

THE DRIVERS BEHIND YIELD EFFECT ON PRICE

Green-rated buildings may reduce risk premiums due to improved liquidity and lower legislation and obsolescence risks, supporting downwards pressure on yields. As more and more investors use ESG criteria as a screening tool, demand and therefore liquidity of buildings with green ratings is likely to increase. Green-rated buildings also enjoy a greater degree of futureproofing against potential legislative changes, as governments embed carbon targets into law. This reduces the risk of assets becoming ‘stranded’ due to obsolescence.

The sales price premia from green ratings appear to be driven by both rental and yield effects, both of which influence price.

These results are important for two key reasons. Firstly, they indicate that the highest sales prices are achieved by those investors who aim for the best level of green credentials, rather than satisficing to meet a minimum threshold. Secondly, the results for sales prices are found at opposite ends of the globe and in different sized markets – suggesting a strong, global pattern between sustainability and value.

THE VIEW FROM SYDNEY & MELBOURNE

NABERS is the dominant green rating used across Australia and we undertook the hedonic price analysis by combining this rating information with Knight Frank proprietary data. This led us to a sample of almost 330 green-rated and unrated asset sales across Sydney and Melbourne between Q1 2010 and Q1 2021. In addition to green ratings, the model also reflected building attributes such as size, height, age, building grade, and lease term. Geographical factors such as market – and in the case of Sydney, submarket – were captured, as well as distance from the waterfront. Year of sale was also included to capture cyclical and other time-specific impacts on sales price; NABERS ratings range from 1 to 6 and we split the model into buildings without a NABERS rating; those with a rating of less than 5; and those with a rating of 5 and above.

Rent

Yield

Price

NABERS RATINGS

1 STAR

2 STARS

3 STARS

4 STARS

5 STARS

6 STARS

Making a start

Below average

Average

Good

Excellent

Market leading

24
2.3 THE GLOBAL RISE OF SUSTAINABLE FINANCE

THE AMERICAS

By the end of H1 2021, the Americas accounted for 43% of global sustainable lending, according to Refinitiv, the highest share since records began, meaning the region is rapidly catching up with EMEA.

While overall, there are fewer sustainable financing structures in place in the Americas compared to other locations, there is evidence of banks undertaking sustainable commercial real estate lending in the US. Fannie Mae, the Federal National Mortgage Association, has also started offering preferential pricing and turning these loans into green bonds.

Canada also saw its first sustainable lending to real estate in 2020 and this is expected to expand at pace, while sustainable bond financing, more generally, is seeing growth in Latin America.

EIA Europe has been an early adopter and leader in the rise of sustainable finance. In the first half of 2021, nearly half of global sustainable lending came out of Europe. The demand for sustainable finance is supported by central banks implementing new policy initiatives to facilitate the transition to a net zero carbon emissions economy.

With the built environment accounting for about 40% of total carbon emissions, both bank and non-bank lenders across Europe increasingly consider ESG credentials in their real estate lending. At the EU level, real estate financing activities have to be aligned with the EU taxonomy and meet the Technical Screening Criteria amongst other standards.

In the UK, the Bank of England has had its remit extended to support carbon targets and develop green finance, while the Central banks are implementing new policy initiatives to facilitate the transition to a net zero carbon emissions economy.

In China, a high priority for the central bank (PBOC) – second only to price and economic stability – is to accelerate the creation of a green financing system. The PBOC is offering other banks low-cost funding to provide discounted loans to companies making significant impacts on emission reductions.

APAC

Asia Pacific is quickly catching up to the rest of the world and we see governments across the region actively fostering an ecosystem for sustainability. There are now sustainability reporting requirements in stock exchanges and green lending facilities across the region to incentivize ESG goals and investment into green technology.

Singapore’s Green Plan 2030 includes the goal of transforming the country into a green finance hub for the region. While South Korea has announced a bolstering of its green finance programme through a number of measures, including a public-private joint task force.

In China, a high priority for the central bank (PBOC) – second only to price and economic stability – is to accelerate the creation of a green financing system. The PBOC is offering other banks low-cost funding to provide discounted loans to companies making significant impacts on emission reductions. This move makes ESG a high priority for China’s corporations and its commercial real estate sector.

The Bank of Japan has announced a new climate lending facility that offers interest-free loans to banks, allowing them to provide financing for environmentally friendly projects or companies. To be launched by year-end, it will run until 2030 and provide loans with a term of up to one year.

Commercial banks that provide loans under the new facility will have their reserves exempted from the negative interest rates currently charged on their deposits.

HOW IS THIS IMPACTING LOCAL LENDING MARKETS?

Around the world, the growing green agenda is having a direct impact on lenders and borrowers. We caught up with Lisa Attenborough, our Head of Debt Advisory in London, and Brad Nelson, our Head of Debt Advisory in Sydney, for an ‘on the ground’ view.

HOW IS THE GREEN AGENDA CHANGING LENDING CRITERIA IN LONDON?

Attenborough: The beginning of 2021 signalled a new era of real estate lending, one where debt providers, on a global scale, acknowledged the part they must play in bringing environmental considerations to the front of borrowers’ minds.

In Q1, this manifested itself in a drive towards offering green loans which presented pricing benefits to the borrower. In Q2 and Q3, the level of detail and ESG analysis undertaken by lenders has stepped up. For example, it is no longer enough for a borrower to simply claim to consider ESG requirements. Now, they have to evidence those claims.

Lenders are interrogating business plans and asking questions regarding refurbishments carried out on a net zero carbon basis; energy efficiency standards; on-site renewable energy generation and water reduction; contractors; and material selection. This enhanced diligence into ESG claims is a reflection of how seriously this subject is now being taken.

WHAT IS THE STATE OF SUSTAINABLE FINANCING IN AUSTRALIA?

Nelson: It is early days for ESG financing in Australia and currently, the focus is more from the borrower side in terms of establishing their ‘green’ credentials through ESG consideration with dedicated internal resources that have oversight of assets and performance based on ESG principles.

However, there is evidence of global banks rewarding green buildings with lower debt pricing on a like for like basis. We also have federal government financiers such as the Clean Energy Finance Corporation (CEFC) and Arena who actively assist in this approach, CEFC in particular.

Local banks are currently tending to consider more the merits of the borrower and their strategy towards ESG. For example, banks are tending to do less with fossil fuel counterparties these days, i.e. they don’t lend to a sector, rather than provide differentiated pricing within a particular sector based on ESG or ‘green’ credentials. However, we could see this begin to change over the coming years ahead.

It is no longer enough for a borrower to simply claim to consider ESG requirements. Now, they have to evidence those claims.
By analysing the operating profit margins of over 600 global listed real estate firms, we have found that governance has the most significant contribution to firm performance out of multiple ESG benchmarks.

The number of non-executive directors; experience through board tenure; gender diversity at board level; moderated executive compensation relative to total firm assets; and high board meeting attendance all contributed to higher operating profit margins.

Lower energy use and environmental partnering also positively impact performance. Such environmental partnerships consider whether a firm partners with or is otherwise involved in initiatives with organisations focused on improving environmental issues.

The results suggest that by ensuring that the mechanism of decision making is optimised through a process of good governance, performance is enhanced for global listed real estate companies. The results around gender diversity representation at board level also reinforce the idea of the importance of diversity in decision making. This may help minimise behavioural biases such as ‘groupthink’ and social proof (where an individual follows the same beliefs as the group) by providing different perspectives, potentially enhancing innovation and helping to mitigate risk.

With a plethora of information and ESG pathways available, these findings indicate that by drawing on environmental expertise through partnerships and optimising the internal decision making process, listed real estate firms are more likely to make the right sustainability decisions at the city, asset and financing level, contributing to performance.

WHAT IS GOVERNANCE AND WHY DOES IT MATTER?

Governance, or more fully, corporate governance, relates to the strength and effectiveness of the decision-making process. We first considered governance in Active Capital two years ago by analysing the impact of governance on the performance of global listed retailers. We undertook this initial analysis on the basis that retailers were a particular tenant sector facing well-documented headwinds. The results suggested that governance may also inform on tenant covenant as global listed retailers with enhanced governance measures enjoyed higher average profitability and return on equity. This initial research echoes the findings of our latest analysis of the impact of ESG on global listed real estate companies.

THE STORY BEHIND THE DATA

METHODOLOGY

Using Global Industry Classification Standard (GICS) real estate company data, covering over 600 firms between 2009 and 2020, we identified the statistically significant ESG drivers of operating performance by using a panel regression. We included non-ESG related variables to control for the effects of firm size (total assets, market capitalisation and common shareholder equity) and risk (debt to total assets and the standard deviation of firm total returns), as well as firm age, location and time factors. Both the ESG and non-ESG data was sourced from Refinitiv. We also replicated the analysis using purely cross-sectional analysis for the years 2009 and 2009 and across different performance metrics to check for the robustness of the results.
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