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# GLOBALCITIES

THE 2018 REPORT

THE FUTURE  
OF REAL ESTATE

THE TRENDS SHAPING  
40 LEADING CITIES

ELON  
MUSK

TRAINS, ROCKETS  
& SOLAR ENERGY

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GLOBAL CITIES

4th Edition



GLOBAL CITIES

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Delivering quality and matching the trends is a proven strategy in real estate. We look at how to achieve this.

The real estate business is all about planning for the future. An occupier must judge their organisation’s business space requirements for years ahead. Property investors must balance the desire to get in on the next big trend, against the risk of being wrong-footed by a future downturn.

Yet, preparing for the future is difficult in a world where the surprising routinely occurs. Office occupiers are happy to trail blaze new districts – thus expanding what constitutes ‘the core’ – while coworking is a rising tide. Flexibility is a popular word, used in many different contexts. Vehicles are starting to drive themselves, while e-commerce is flourishing, placing logistics and retail property in the midst of a revolution. Investors are looking at new markets and different property sectors in the search for higher returns.

In such a disrupted world, what continuous trends can we identify to inform decision making?

A recurring message is that best in class continues to out perform, both in the occupier and investment markets. The challenge is to keep abreast of what constitutes the best, which morphs according to the needs of occupiers and where we are in the investment cycle.

This year’s Global Cities report is a comprehensive study of the current definition of best in class in real estate. Throughout the report you will hear directly from our experts in the 40 Global Cities how this applies in their markets. We hope it provides you with the necessary facts and insights to inform your future real estate decisions.

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SUPER CITIES

**6 THE SUPER CITIES**  
A series of experiments carried out in an Illinois factory over eighty years ago created a blueprint for the 21st century Global City. The lessons for real estate are huge.



**10 ELECTRICALLY CHARGED**  
The Tesla co-founder on revolutionising the road.



**14 THE BIG FOUR**  
Market experts on the ground address the big questions facing Manhattan, London, San Francisco and Hong Kong.

**16 PARADISE CITY**  
If one built the ideal city today, what elements would it combine from the Global Cities? Here is our selection of the best from around the urban world.



THE OCCUPIER



**38 TAKING ON THE WORLD**  
For occupiers, the business rationale for 'going global' is changing; creating some fundamentally different property requirements.

**42 BUILT TO SERVE**  
What are main issues faced by occupiers in Beijing, Dallas, Mexico City, and Dublin? Four local experts provide their insights.

**44 A STATEMENT OF INTENT**  
The move to a new office is increasingly being used to drive a wider process of business transformation.



**20 WE BUILT THIS CITY**  
The gap between work and home is narrowing as vibrant mixed-use locations takeover city centres across the globe.

**24 MIXED-USE CITIES**  
Market experts on the ground share their insights on Berlin, Dubai, Nairobi and Toronto.

**26 ONES TO WATCH**  
Choosing a district that is on the rise is a tried and tested strategy when buying a home. Our experts identify the neighbourhoods in the Global Cities we see as strong opportunities.

LIVING IN THE CITY



**46 FUTUREVILLE**  
The role of real estate is changing in the retail, industrial and alternatives markets. The experience of the UK city of Bristol illustrates the new trends.

**50 CYBER METROPOLIS**  
What are the future trends that will shape Chicago, Delhi, Kuala Lumpur, and Bangkok? Our market commentators give their views.

FUTURE TRENDS

CAPITAL MARKETS



**28 CAPITAL CITIES**  
Investors are increasingly looking to global real estate.

**32 EVOLVING MARKETS**  
What opportunities are there for real estate investors in Boston, Frankfurt, Shanghai, and Madrid? Find out more from our experts.

**34 NEW HORIZONS**  
Much cross-border property investment piles up in the world's mega cities, but for those willing to cast their net wider, there are excellent cities that are sometimes overlooked.

**36 GLOBAL GATEWAY**  
Nabil Al-Kindi is re-shaping Dubai's DIFC, adding more culture, leisure and public areas to a global business centre.



Global Cities - The 2018 Report  
The Future of Real Estate in the World's Leading Cities

cover image: Joe Pugliese / AUGUST





Shoppers in Hong Kong

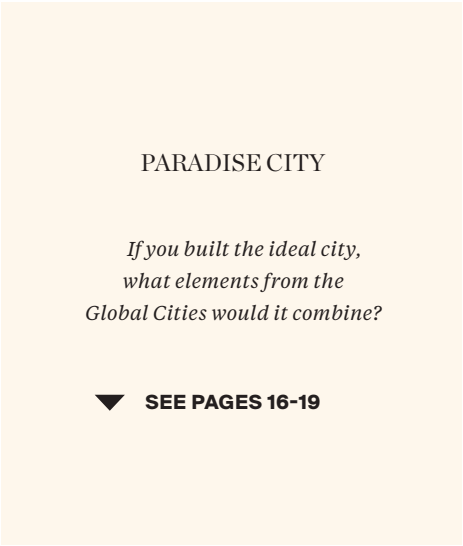
# EDITOR'S CHOICE



## ELECTRICALLY CHARGED

*Elon Musk, the tech visionary, talks about the future of driving, solar power, and tunnelling.*

◀ SEE PAGES 10-13



## PARADISE CITY

*If you built the ideal city, what elements from the Global Cities would it combine?*

▼ SEE PAGES 16-19



## TAKING ON THE WORLD

*The fourth phase of globalisation for the corporate occupier is focused on innovation and flexibility.*

SEE PAGES 38-40



## CAPITAL CITIES

*As investors look further afield for higher returns, attention is shifting towards the Momentum Cities.*

▲ SEE PAGES 28-30



## WE BUILT THIS CITY

*The gap between work and home is narrowing, as mixed-use development reshapes the city centre.*

▶ SEE PAGES 20-23





# THE SUPER CITIES

A series of experiments carried out in an Illinois factory over eighty years ago created a blueprint for the 21st century Global City. The lessons for real estate are huge.

**JAMES ROBERTS**  
Chief Economist & Editor of Global Cities  
Knight Frank



Hong Kong: Towers with panoramic views can make the workplace feel special

This year’s Global Cities report looks at what constitutes best in class across all aspects of property: encompassing building design, occupier trends, place making, investment strategy, and mix of uses. However, success in real estate is often achieved by being on the ground where economic growth is strong, raising the question: what does a best in class city economy look like?

The answer is increasingly about having the culture, diversity, lifestyle, and opportunities necessary to draw talented people. While employers can provide a micro-location – the workplace – where these factors are brought together, they must similarly exist at a city level to generate the critical mass of skilled and creative people that are necessary to feed growth for successful firms.

To find out how this is achieved at a city level, we need to look at a study which occurred in an American telephone factory.

**THE HAWTHORNE EFFECT**

Between 1924 and 1933, researchers from Harvard University ran tests on workers at the Hawthorne Works near Chicago, which made telephony equipment, to establish how changes in the workplace environment impacted productivity. In one part of the factory brighter lights were installed, in another they remained the same. The researchers expected to observe higher worker productivity in the better lit area. To their surprise, productivity increased in both the test areas.

A separate test room was then established, where different aspects of the workplace were changed. Yet, every variation brought about higher productivity than when workers were on the factory floor. When they left the test room, returning to the ordinary assembly lines, the workers’ productivity gradually receded again. The experiments were then followed up by interviews with the workers involved, which revealed that being in the test room with University academics showing an interest in their work made them feel special, but also conscious of being observed.

Moreover, the interviews seemed to have the greatest impact on productivity, as the workers revealed insights on how they thought the factory could increase efficiency. The academics also began to deduce that the workers had their own informal groups or cliques that were unrelated to the teams the firm had assigned them to. The approval of their fellow clique members was more highly prized for Hawthorne workers than that of their bosses.

This phenomenon of workers becoming more productive when they are made to feel special and under the spotlight is known as the Hawthorne Effect.

**WORKERS ‘ON STAGE’**

Hawthorne showed workers are more productive when they are ‘on stage’ in front of an audience. Wanting to impress the boss is part of the effect, but so is the sense of elevation that comes from being a focus of attention. Nor is it always the boss that workers

want to excel in front of – the opinions of their informal network are important. Also, being moved into a special environment (the test room in Hawthorne’s case) provides a novelty boost, and encouraging open discussion delivers further productivity gains.

The modern workplace reflects the findings of the Hawthorne experiments. The move from cellular to open plan offices placed workers centre stage; in full view of their informal group and the boss. Activity-based working, with more table-top work areas and fewer upright panels to hide behind, has enhanced the effect. Peppering the office with break out areas, cafés and buffets, has ramped up communication, and allowed the informal networks to thrive.

The attempts to make the workplace special have dazzled. Yoga areas and running tracks on the roof for tech firm offices are the extremes that grab the headlines. Yet, tower offices with panoramic views, or relocating from a non-descript business park to a trendy downtown location, are also part of the drive to make the workplace feel special.

**THE HAWTHORNE CITY**

However, on average nearly 20% of our working day is actually spent away from the desk according to Loughborough University, and 80% of our total week is the free time outside of work. With so much of our lives occurring outside of the office, to be truly globally competitive, the Hawthorne Effect needs to stretch across the city as a whole.



**A city has to inspire and contain as much wow-factor as a Google office, if it hopes to draw firms of that calibre.**

A city has to inspire and contain as much wow-factor as a Google office, if it hopes to draw firms of that calibre. It must be integrated into the informal networks that thrive in today’s Global Cities – tech geeks, foodies, LGBT, culture vultures, and the craft beer crowd. A city must now provide the ambitious with a stage they want to succeed on, as for some people impressing their bohemian friends in the cool part of town is more important than pleasing any boss.

The cities that genuinely achieve this are those in the front rank of the Global Cities; locations that cannot be losing businesses, jobs and investment to places that can. Fairfield, Connecticut, last year lost GE’s headquarters to Boston, with its famous universities and innovation culture. Despite the uncertainty of Brexit, Snap Inc (the owner of SnapChat) chose London for its first European office, even though a host of other cities could offer guaranteed access to the European Union market.



FLEXIBLE OFFICE MARKETS

This drive towards informal networks, and a fluid business and cultural environment, is being reflected in the rise of new districts and different office formats. From London’s Southbank to Silicon Beach in Los Angeles, alternative Central Business Districts (CBDs) are thriving, as they combine work and lifestyle, but in a different cultural environment. Firms now move to where they can obtain the right quality office in a local setting that appeals to staff, rather than hugging the traditional hubs of their industry.

Similarly, the coworking office provides a platform for informal networking among entrepreneurs. This is the real estate manifestation of the ‘gig economy’, whereby more people work on a freelance basis, in a world of fluid teams that come together on a project-by-project basis.

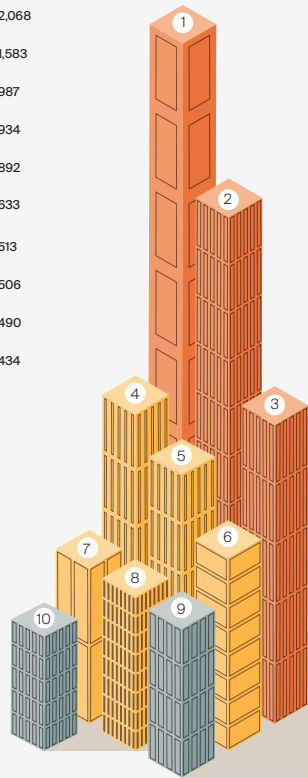
WeWork is now approaching 190 centres in 12 countries, while Blackstone is acquiring The Office Group, a flexible offices firm in the UK, demonstrating that coworking space is becoming an established feature of the real estate landscape. There are even examples of financial and professional firms setting up incubators or accelerators, to act as a bridge between their own businesses and the new wave of start-ups.

TECH REVOLUTION

Unquestionably today, the cities who are successfully achieving this urban Hawthorne Effect are those at the forefront of the tech and creative revolution, which is demonstrated by economic growth. Since 2007, the GDP of Berlin, with its thriving technology scene, has expanded by 19.0%, whereas in finance-oriented Frankfurt output grew by just 5.9%, according to Oxford Economics.

Forecast City GDP in 2018 – US\$ billions

1	TOKYO	2,068
2	NEW YORK METRO	1,583
3	GREATER LONDON	987
4	LOS ANGELES	934
5	PARIS METRO	892
6	CHICAGO	633
7	DALLAS	513
8	SHANGHAI	506
9	WASHINGTON	490
10	SAN FRANCISCO	434



Source: Oxford Economics



New York's economy has diversified, reducing its dependence on finance industries

WASHINGTON TAKES TRUMP IN ITS STRIDE

ALEXANDER (SANDY) PAUL  
Senior Managing Director,  
National Market Research,  
Newmark Knight Frank

*The Trump Administration has had a modest impact on investor and occupier demand for commercial real estate in the Washington Metro area, a trend that is likely to continue into 2018.*

The president spoke on the campaign trail of ramping up spending on infrastructure, which could improve access to new and existing developments as well as benefit the region’s beleaguered subway system, but he has already run into opposition from his own party’s budget hawks in Congress. A renewed focus on defense spending – the president included an additional US\$54 billion in his budget proposal compared with the current Federal outlay – could elevate local office sub-markets with high concentrations of defense contractors, particularly in Northern Virginia. However, proposed cuts to discretionary spending elsewhere could offset much of that impact.

More broadly, there have been concerns since the election that the new president’s unpredictability could convince foreign investors that the U.S. and Washington DC are no longer safe havens for capital. However, the relative strength of the American economy compared with others around the globe will likely keep foreign investment dollars flowing into U.S. markets—including that of the nation’s capital.



Demand for real estate in Washington DC has not been impacted by the change of government

Similarly, in the US we see tech and R&D oriented cities like San Francisco (17.6% GDP growth since 2007) and Boston (15.2%) outperforming locations like Chicago (6.2%) and Miami (6.6%).

However, note the level of growth seen since 2007 in cities like London (21.2%) and New York City (11.5%). Both were finance-led cities back in 2007, which successfully re-weighted towards technology and creative industries in the last decade. This arguably makes adaptability a greater strength than a large tech exposure. If the technology sector moves into a downturn we will find out whether Berlin can quickly reposition itself towards the next rising industry. To a property investor London and New York City offer the security of having proved themselves capable of reinvention.

In this regard China’s larger cities are displaying encouraging signs. Shanghai, which back in 2007 was thought of as a manufacturing city, is growing fast as a tech centre. The top ten ranking of global internet firms based on revenue contains three Chinese firms - Shenzhen’s social media giant Tencent, online retailer Alibaba of Hangzhou, and Baidu, a search engine from Beijing.



The top ten ranking of global internet firms based on revenue contains three Chinese firms.

This demonstrates that some of China’s leading cities are evolving away from exporting cheap manufactures, and moving up the value chain. This will focus attention upon India, where the rate of GDP growth is forecast by the IMF to outpace that of China, and whether it can build on the success of Bengaluru and develop more tech clusters.

MAINTAINING GLOBAL STATUS

The emerging picture is of a world that embraces the Hawthorne Effect workplace, which is open, inspiring, diverse, and a forum for ideas and opinions. The Global City has to be the same, in order to feed industry with the right staff for a creative-driven economy. However, many cities in developed economies now face populist pressure to step back from globalisation, and accept fewer migrant workers. Some cities in developing nations face the challenge of introducing freedoms in lifestyle and expression that have previously been curtailed.

The sanctuary cities in the USA and Canada, which have refused to enforce some federal immigration controls, may offer an example of how cities can defend themselves against change imposed from outside. This could offer an advantage to those cities which have some degree of political independence.

The best in class Global City is a diverse and vibrant place to work and live. Maintaining these qualities is the big challenge for 2018.



# ELECTRICALLY CHARGED

The Tesla co-founder, Elon Musk, on revolutionising the road.

GILES WHITTELL

Author and Journalist

Last October, Tesla Motors posted a video on YouTube consisting of about three minutes of undeniably compelling dash-cam footage. It shows the view from the forward-looking camera of a Tesla Model X saloon driving itself to work. The soundtrack is *Paint It Black* by The Rolling Stones.

There is a person in the driver's seat, but he never touches the wheel, he just taps his fingers along to the music. After a couple of minutes on California's Highway 280 the car takes an off-ramp, heads into the hills and stops outside Tesla's headquarters. The 'driver' gets out, leaving the car to find a parking space and back into it.

Full disclosure: I have taken that off-ramp, parked in that car park and met Tesla's mercurial co-founder, Elon Musk. For readers new to the Musk phenomenon, he is the South African-born co-founder of PayPal, who inspired the Tony Stark character in the Iron Man films, and is Chairman and CEO of electric car firm, Tesla Inc.

**ON A MISSION**

Musk is on a mission to rebuild the future. He appeared as if from nowhere at the open plan desk he uses when at Tesla, wearing a blue polo shirt and an earnest look that he often uses to avoid appearing arrogant. Instead of small talk he offered

an opening riff on battery power output and drag coefficients. We moved swiftly on to capacitors, rockets and a trip he once took to Moscow in search of intercontinental missile casings.

He kept returning to what unifies his work – the need for a wholesale switch to clean energy. “We’re talking about changing what will probably be two billion cars,” he said. “We know we have to move away from oil because it’s a finite resource. It almost seems like the behaviour of a three year old not to act soon.”

That was on the eve of the launch of the Tesla Model S, and Musk has not let up since. He confounded doubters again with the world's first all-electric SUV, which can out-accelerate a Buggati Veyron. He has made colossal bets on car-charging networks, reusable rockets that can deliver satellites to orbit then land backwards on barges floating hundreds of miles offshore, rooftop solar power, electric lorries, lithium-ion batteries and driverless technology.

When I met him, he was upbeat. “I’m actually very confident that it will work out,” he said. As ever, he was able to draw strength by thinking bigger and over a longer timescale than anyone else. On being asked whether he was attempting to change the buying and refuelling habits of an entire culture, he replied: “Of course we are. Absolutely. We used to feed horses, didn’t we?”



Illustration by Thomas Danthony

Forbes puts his net worth above US\$15 billion. Tesla’s market cap regularly exceeds that of General Motors. That is how he has earned a hearing whenever he opens his mouth.

Musk told investors recently he “could be completely delusional”, but even when he talks about one day colonising Mars or digging tunnels underneath LA – as he does from time to time – he can carry people with him. The prevailing view, which Wall Street broadly shares, is that if part of him is mad it is only a small part; the marbling in the steak. Whatever else he is, Musk is an engineering genius and a social visionary who is already changing the way we live and the places we call home.

GOALS AND PREDICTIONS

Bloomberg Businessweek has a blog devoted exclusively to tracking Musk’s goals and predictions as they are announced and achieved, or delayed. It lists 47 of them under Tesla alone, including forecasts that half of all US vehicles will be driverless by 2027, and that the first hands-free journey across America will be made this year.

Musk’s supporters have learned that he should not necessarily be taken literally. The point is not whether he will build a vacuum tube to shuttle

people between cities by a given date. The point is that he has popularised the ‘Hyperloop’ concept, given it a name and challenged others to make it real, which they may do. Coming from anyone else, the idea of travelling at 700 miles an hour in an underground tube would have been dismissed out of hand. Coming from Musk, the Hyperloop concept has been seized on by engineers who want to emulate his chutzpah.

In the engineering under Tesla cars’ aluminium skins, Musk has made myriad innovations but sought few patents. His goal is critical mass for electrification – and we will get there, he insists, without the need for human drivers.

FULLY AUTOMATED

Driverless cars were not Musk’s first obsession and he was not first on the scene – that was Google – but as of 2017 Autonomous Vehicles (AVs) are the portal to his view of the future. Through that portal lies a world where cities are clean and quiet because personal transport is electric. Time in traffic is no longer wasted because you can work (or sleep, within “about two years”, he says) as you roll. The smokestacks that used to rise over power stations will be history, replaced by billions of photovoltaic

cells disguised as roof tiles, drip-feeding electricity into wall-mounted batteries that power not just your house and car, but the grid.

At a recent TED Talk, Musk, was asked if he truly believed the part about ending traffic jams. Did AV technology really mean commuters would get dropped off at work, then rent out their cars to others for the middle of the day like driverless Ubers? “Absolutely this is what will happen,” he said. “There will be a shared autonomy fleet where you buy your car and you can choose to use it exclusively [or] you could choose to have it be used only by friends and family, [or] only by other drivers who are rated five star. You can choose to share it sometimes, but not other times. That’s 100% what will occur. It’s just a question of when.” The prediction is met by a ripple of applause.

In the places where he works people hang on his every word, and work 100-hour weeks to meet his targets. In the outside world he has his sceptical critics for sure, but what no one disputes is the likely impact of driverless cars generally.

In Singapore, where self-driving taxis were launched last year, a research project led by MIT’s Professor Carlo Ratti estimates that the city’s ‘mobility demand’ could be met by 30% of the

vehicles now on its roads once they ditch their drivers. The number falls to 20% if passengers are willing to share vehicles.

This is a huge change, although whether it happens depends on people’s readiness to abandon private car ownership in favour of a subscription model. Musk’s strategy is to be ready either way. His ambition is to tip the entire global auto industry towards batteries, and be the market leader as two billion petrol and diesel cars are replaced by electric ones. For this to happen his latest model, the US\$35,000 Model 3, needs to be a mega-seller.

RE-IMAGINING LA

In LA, planners are reimagining whole swathes of the city on the assumption that, thanks to ride-sharing and driverless cars using roads more efficiently, six-lane boulevards can eventually be turned into multi-purpose ribbons of relaxation. If current ride-sharing trends continue, the share of urban American road space taken up by cars could drop by one estimate from 80% to 20% in a few years.



We know we have to move away from oil because it’s a finite resource. It almost seems like the behaviour of a three year old not to act soon.

His latest scheme is a network of car tunnels under LA. Musk announced his plans with the tweet: “Am going to build a tunnel boring machine and just start digging”. So he has – a giant trench and the beginnings of a tunnel on land he owns next to the SpaceX headquarters in LA. He has been photographed there with the mayor of the local municipality, and has teased the web with an animation of cars zipping through tunnels at three times the speed limit on electric ‘skates’.

Essentially Musk’s career since PayPal has been defined by a two-stage master plan. Stage one was about electric cars. Stage two is about enabling them to drive themselves and juicing them with solar power. Depending how things turn out over the next ten years he could really end up being thought of as the Sun King. Even if he turns out to be closer to Icarus, given what he has achieved already he probably would not mind.

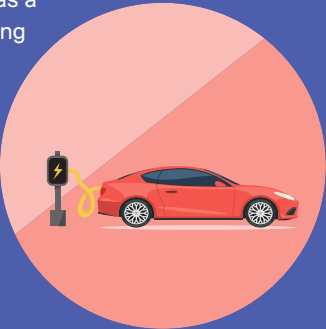


Elon Musk’s predictions often have a starting gun effect on researchers and engineers

REAL ESTATE IN MUSK’S FUTURE

JAMES ROBERTS  
Chief Economist, Knight Frank

The changes envisioned by Elon Musk could reshape the landscape of real estate. New investment opportunities should emerge as a result, while assets on the wrong side of the trends will change use – and perhaps rise in value as a result. Here is Knight Frank’s view on the implications for real estate markets around the world of Musk’s technology revolution:



PARKING SPACES

A recent study found that 14% of the developed land in LA County is taken up by car parking spaces. In a future where a shopping mall only requires a taxi rank for driverless cars, the car park can be redeveloped, probably as leisure property to complement the retail. Basement parking in office buildings could house data centres, gyms or cinemas.

AUTOMOTIVE PROPERTY

Some city centre car parks will become apartments or hotels. Others will be drop-in stations, where driverless vehicles go for charging, minor repairs and cleaning. Similarly, we could see demand for edge-of-CBD industrial units for comprehensive repairs and overnight storage of vehicles. In Musk’s all-electric world, fuel stations will evolve increasingly towards convenience retail and food-to-go outlets. Private car ownership will probably continue among the wealthy, maintaining demand for high-end showrooms.

SOLAR ENERGY

Across the Global Cities, property developers are under pressure from government, communities and occupiers to ensure their buildings are as sustainable as possible. In a future world of very efficient photovoltaics, coloured to match the exterior cladding, which are feeding power to batteries for local storage, modern buildings could become more self-sufficient in their energy use.

SUPER COMMUTING

While a distant horizon project, Musk’s tunnelling scheme could extend the commuter belts around cities. Vehicles riding at high speed under the congestion would allow those seeking affordable homes to look much further afield. This would extend the economic influence of a Global City over a much wider area, leading to the development of new suburbs.



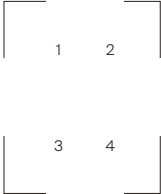
THE

Market experts on the ground address the big questions facing London, Manhattan, San Francisco and Hong Kong.

BIG FOUR



Park Avenue had long represented the center of Manhattan’s office market, but a seismic western shift of capital has pushed the city’s core closer to the Hudson.



1 / LONDON

How has the move towards Brexit impacted the London economy?

The London economy has performed better than anyone would have expected in the aftermath of the vote to leave the EU in June 2016. Firms like Apple, Deutsche Bank, and Wells Fargo have committed to new HQs in London, Amazon and Facebook are both recruiting here, and unemployment is at its lowest level for over 40 years. Overseas firms have seized on the fall in value for the pound to invest in London at a discount.

There has been huge variation in the reaction to Brexit between technology industries and the financial sector. Most tech firms quickly shrugged off Brexit and returned to expanding again soon after the June 2016 referendum. The financial sector remains cautious due to concerns over whether some operations may have to relocate to cities in the EU.

I believe the EU will be reluctant to see the flow of capital from London to European firms disrupted by bank relocations – which would also push up the cost of raising finance. I see financial market access being maintained in the long-term.

JAMES ROBERTS  
Chief Economist  
Knight Frank

2 / MANHATTAN

How have major new development projects in recent years reshaped the geography of Manhattan?

The rapid development of a cluster of office buildings within a dedicated area is not new to Manhattan. It happened in Rockefeller Center, Times Square and the original World Financial Center, to name just a few locations. Each new cluster has pushed the boundaries of Manhattan’s office market further west. Park Avenue had long represented the center of the market, but a western shift of capital has pushed the city’s core closer to the Hudson.

The addition of 18 million sq ft to the West Side, including 7.1 million sq ft leased or sold, has resulted in a significant number of employees from large, highly successful companies migrating to an area that has never been so populated. The notion that global financial institutions, media conglomerates and prominent law firms would anchor buildings along Tenth and Eleventh Avenues in Midtown was beyond far-fetched just a few years ago. New and fully amenitized assets have gained traction despite less-than-favorable locations. Changes in market dynamics have altered the commercial landscape, providing opportunities for tenants in more diverse locations.

JONATHAN MAZUR  
Senior Managing Director  
National Research, Newmark Knight Frank

3 / SAN FRANCISCO

How do long-term San Francisco tenants compete in this market?

Tech growth has profoundly affected both supply and rent levels, yet tech represents only 35% of the market. Traditional tenants with 10 year leases rolling in 2017 have net negative 6.3 million sq ft of space to choose from now. This is because the space has been leased by new tech companies that were not in existence ten years ago. New development - over 5.3 million sq ft of deliveries in the past decade, and another 6.4 million sq ft coming in the next three years - should help ease the crunch. However, more than half of the space underway is already pre-leased, so the impact of additional space will be limited.

Tenants are also facing asking rates that are double what they saw 10 years ago. As a result, established tenants are finding ways to downsize and become more efficient, whether by densifying occupancy or bifurcating and sending transferable jobs to nearby secondary markets like Oakland.

Renewals are another cost-saving option, and tenants often opt to exchange improvement packages for reductions in rent.

ANDREA ARATA  
San Francisco Director of Research  
Newmark Knight Frank

4 / HONG KONG

Why is so much investment capital coming to the global real estate market via Hong Kong?

The rise of Hong Kong on the global investment stage was driven by the need for Chinese firms to expand, diversify and seek greater value. Hong Kong has evolved in the last ten years from an entrepôt into a fully-fledged international financial centre for the region. This has enabled Chinese firms to raise capital here and launch their bids unimpeded by the capital outflow restrictions that apply on the mainland.

Hong Kong is also helped by its excellent connectivity within Asia Pacific. In addition, its sophisticated legal system, high market transparency and accumulated financial expertise have enabled the city to stand out from other business centres on the mainland.

Not surprisingly, the city has been attracting strong occupier demand from mainland firms vying for top spots in the Hong Kong financial market. Nearly all the new leases in Q1 2017 were by mainland firms.

Hong Kong is evolving too as we can see from the development of new CBDs and new transport links.

DAVID JI  
Head of Research & Consultancy  
Knight Frank Greater China



# PARADISE CITY

If one built the ideal city today, what elements would it combine from the Global Cities? Here is our selection of the best from around the urban world.

**JAMES ROBERTS**  
Chief Economist, Knight Frank

In 2009, New York City opened The High Line, re-purposing an old elevated railway line as a park which now attracts five million visitors a year. Soon afterwards the copycat versions began appearing elsewhere. Across the globe, city authorities and developers are on the lookout for innovations that lift the urban environment. In some cases this stretches beyond just a single project, like The High Line, to city-wide initiatives or even informal communities that have expanded to colonise several surrounding districts. The growth of London’s Silicon Roundabout into a tech ecosystem covering swathes of the city in just a few years is one example of this.

To identify examples where innovation has become a city level phenomenon, we ask the question: if you built the ideal city from the best elements around the world, what would it include? Here is our view on what constitutes best in class in the urban environment.



SEOUL'S SMART CITY TECHNOLOGY

South Korea is arguably the world's most technologically advanced nation, so it is no surprise its capital leads in smart city technology. The routes for night buses were influenced by analysing smart phone data on where late night calls were made. In the newly built Songdo smart city, near Seoul airport, there are no rubbish bins or garbage collections – litter is sucked into an underground disposal system, where it is either recycled or burnt as fuel.

Parents can use Songdo's CCTV network to watch their children playing outdoors, while sensors in car parking spaces inform residents that a spouse has arrived home. Energy use per person in Songdo is 40% less than in urban districts of comparable size.

DENVER'S LIFESTYLE

Denver is proof that not all city dwellers are afraid of the great outdoors. From the city's downtown the Rocky Mountains are visible in the distance; and this is a big part of its appeal and success. More people want to work in cities that match their lifestyle. In Denver's case, it draws those who want a life that is more outdoorsy, less frenetic, and laid-back.

At the forefront of current trends is the LoDo district; a bustling trendy area, known for its nightlife, which in turn has drawn creative firms seeking offices. Up to 2007, LoDo was a classic 'old warehouses into trendy offices and apartments' regeneration story. Yet, new office developments in the last decade and the digital revolution have pulled LoDo centre stage in Denver's downtown market, and demand is driving development in adjacent emerging neighbourhoods. This matches the global trend of work and lifestyle becoming interwoven in today's urban economy.

SINGAPORE'S CITY IN A GARDEN

In the 1960s, Singapore's visionary leader, Lee Kuan Yew, set out to develop a 'Garden City', introducing an annual tree planting day, encouraging conservation, and developing parks. Today, green areas now cover 30% of the city, which has over two million trees. There are an estimated 100 hectares of rooftop gardens and greenery in building façades, with The Pinnacle@Duxton as an example. The development boasts two 1,600 ft sky gardens linking seven 48-storey towers, as well as a park at ground level. The upcoming Paya Lebar mixed-use development will contain 100,000 sq ft of green space on its four hectare site.

The National Parks Board's stated mission is no longer to build a 'Garden City', but to create a 'City in a Garden'.



Illustrations by: Karolis Strautniekas

THE ARCHITECTURE OF PARIS

In the 1850s and 1860s, under the direction of Georges-Eugène Haussmann, Paris was rebuilt to rid itself of the slums that bred revolution. Haussmann built an iconic city with wide tree-lined boulevards, limestone building façades, and expansive parks and squares. Today, behind the extensive historic façades one finds modern offices, shops and homes, providing flexible properties that serve a constantly evolving modern Global City.

However, Parisians retain their revolutionary spirit. Keeping Paris at the cutting edge of architecture is the under construction DUO in the 13th arrondissement, with its twin towers. A nod to the Haussmann approach, this 1.1 million sq ft mixed-use development is keeping the city green with gardens integrated into the design.

LA'S SILICON BEACH

When the tech action from Silicon Valley came south to Los Angeles, a new ecosystem emerged. Games company, EA, setting up shop in Playa Vista in 2004 began the rise of Silicon Beach. Google followed in 2011 with a 100,000 sq ft campus in Venice, and the tech giant plans to turn the aircraft hangar where Howard Hughes built his giant Spruce Goose seaplane into a 319,000 sq ft office. Venice is also home to local success story, Snap Inc, which will be expanding into a 300,000 sq ft office in Santa Monica.

Part of the appeal is good universities, plenty of creative workers, and adjacency to Los Angeles International Airport. Another draw is the regeneration of the Venice area, and lots of multi-family housing in Playa Vista, making Silicon Beach a great place to live and work. Even programmers like to surf!

MELBOURNE'S WATERFRONT

Melbourne has significantly expanded its CBD, and introduced more mixed-use development into the city centre, by spreading along the Yarra River. The Docklands regeneration includes 6.7 million sq ft of prime office space – mostly campus-style buildings with large floor plates. The tenant base includes financial and professional firms, like ANZ, KPMG and NAB, and media occupiers such as Channel Nine, Fairfax Media, and Seven Network. NAB offers a coworking space called The Village for its small business clients to use.

The redevelopment area spans 190 hectares (44 of which are water). Docklands now has a 53,000-seat stadium, 741 yacht berths, 3.7 hectares of open spaces, and 45 public art works. When the regeneration completes it will have a population of 20,000 residents and 80,000 workers.



# WE BUILT THIS CITY

The gap between work and home is narrowing as vibrant mixed-use locations takeover city centres across the globe.

**LIAM BAILEY**  
Global Head of Research, Knight Frank

Over the past few years this report has documented the growing focus by city authorities and private developers on creating true mixed-use environments – those that aim to provide seamlessly for living, working and leisure. This process has been encouraged by shifts in economic activity, for example the redevelopment of former industrial and dockland districts near city centres, and also by rising competition between businesses as they vie to attract and retain talent. Young employees, in particular, increasingly seem less attracted to the pattern of travelling from a monocultural housing zone to a similarly one-dimensional office neighbourhood.

While the development of mixed-use projects in markets like London or New York City may feel relatively advanced, there are clear signs that the future rate of delivery of this type of environment will rise over the coming decade. If we consider key economic forecasts we can observe supports for future growth including: a rise in the overall numbers of employees in these markets, especially strong in sectors that have helped to fuel the mixed-use concept; an increase in the incomes of these employees (notably in cities across developing economies); and an enhanced desire to spend their income in ways that supports the expansion of the full range of facilities and uses that make these environments successful.

Over the last decade, employee numbers have risen in key Global Cities, partly as a result of general population growth, but also as a result of the ability of the most successful cities to pull in workers from surrounding regions. While an impressive sounding 1.1 million additional workers have been added to London’s workforce since 2007, even this figure pales alongside the additional 2.1 million in Beijing or the two million in Mumbai.



Pudong in Shanghai



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How rising incomes are spent will influence the shape and content of urban environments

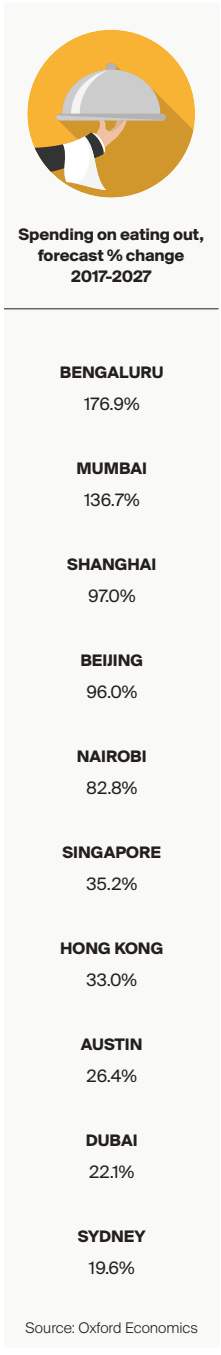
Critically, for our purposes, rapid employment growth has been happening in the sectors that have powered the expansion of mixed-use urban forms: finance, information, telecommunications and business services. At the current time the biggest global cluster of finance and business service jobs is to be found in London (with 2.7 million employees across the metropolitan region). A decade hence and the largest concentration is likely to be found in Beijing (forecast 3.4 million, according to Oxford Economics) - although the fastest rate of growth will be seen in Bengaluru, which is expected to see an anticipated 65% growth over the 10 years to 2027 (to 809,000).

The ability to support the services and facilities that generally accompany mixed-use development - retail, restaurants and hotels - has been driven by growth in disposable incomes in some markets; although in others the picture has been more mixed. This growth has been rapid in Asia, typified by an 87% rise in Shanghai over the past decade, compared with less impressive rates of around 10% across U.S. cities and 5% in Europe. This weakness in developed markets reflects the impact of the global financial crisis that in many western cities saw real incomes squeezed during the five years from 2007, with a recovery only noticeable from 2012 in most cases.

The rise in disposable income across Asia reflects the rapid growth of professional and high-skilled employment. In Beijing a decade ago, the numbers of people earning between US\$35,000 and US\$70,000 stood at 231,000, compared to 1.7 million in London. In ten year’s time the relationship is expected to reverse with numbers anticipated to stand at 3.5 million and 2.1 million, respectively.

Moving up the income curve and the growth of higher wages in developing markets becomes even clearer. The number of people earning between US\$70,000 and US\$100,000 in Mumbai in 2007 was 32,000, but by this year this number had increased by 244% to 109,000. In 10 years’ time the number is expected to be a little over 210,000 – if achieved, this would see the population of this earning group approach the levels expected at the same point in time in Berlin. On the same metric the expectation is that there will be a similar number of people earning this level of income in Shanghai in 2027 as in Los Angeles.

How rising incomes are spent will influence the shape and content of urban environments. Looking at those sectors that help to glue mixed-use locations together, there is an expectation of



considerable future growth in emerging markets. Take Nairobi as an example, the total spend in restaurants, and eating out more broadly, is anticipated to rise from US\$848 million in 2017 to US\$1.5 billion over the next decade. Even the Kenyan capital’s impressive performance on this measure is overshadowed by the 100% to 200% growth expected in key Indian and Chinese cities.

The increase in restaurant spend is mirrored in the hotel sector. Markets as mature as those in London, San Francisco or Miami will see hotel spend rise by around a third over the next 10 years, while key African and Asian cities will see growth of 50%, 100% and even 200%.

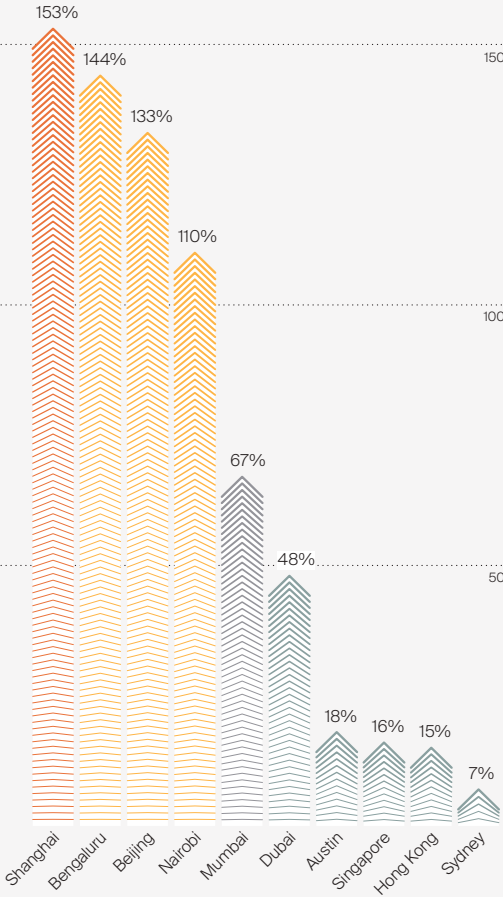
Over the next few pages we examine examples of best in class mixed-use development. If the forecasts detailed above are proved accurate there is likely to be an exponential growth in the demand for these environments in an ever-widening spread of cities over the next decade. The opportunity for developers and other experts involved in providing these environments is set to grow in tandem.



Top right: Interior shot of Moshi Moshi, London  
Below: Brigade Road, the main shopping street in Bengaluru



Forecast growth in households with an income of US\$35,000–US\$70,000 2017-2027



Source: Oxford Economics,  
Note: Resident based, constant 2012 prices





# MIXED-use CITIES

Market experts on the ground share their insights on Berlin, Dubai, Nairobi and Toronto.

1 / BERLIN

How has the tech boom influenced the residential market in Berlin? Is there a shift towards developing trendy homes?

London, Berlin, perhaps Stockholm, and then what? Europe's IT and start-up scene is primarily focused in these three cities. Berlin ranks highly for lifestyle, and is known for its hipness, creativity and tolerance. Other advantages include Berlin's three universities, diverse research institutions, incubators, and a slew of venture capitalists – in short, the perfect mix for creative industries looking at funding, networking and product development.

The boom for the start-up scene has direct consequences for the office and housing markets. Berlin has developed Germany's largest concentration of co-working spaces and innovation hubs. In recent years, more than 50 corporate accelerators, including Lufthansa, Metro and Cisco, have relocated their innovation hubs to Berlin. Meanwhile, the market for flexible office space is increasingly dominated by listings for schemes that accommodate several hundred workplaces. On the residential side, the requirements of start-up entrepreneurs and IT specialists are demonstrated by a growing supply of serviced apartments and in the demand for buy-to-let condominiums.

**SVEN HENKES**  
Managing Director / COO  
Ziegert Immobilien

2 / DUBAI

Why are overseas buyers still targeting Dubai? What is the balance between investors and occupiers?

A third of the world's population is accessible within a four-hour flight of Dubai and two-thirds within eight hours, making the city a well-placed strategic hub for regional and global investors. So significant is this investment that in 2016, 136 nationalities purchased property in Dubai, providing the city with a more diverse purchaser base than any other world city.

Regulations introduced since 2013, aimed at deterring speculation and reducing market volatility, have heightened Dubai's profile as a favoured destination for both regional and international property investors.

The Emirate's population has increased by 134% in the last decade, rising from 1.3 million to 2.4 million, this has supported the fundamental argument for property investment. Add to this the government's commitment to infrastructure investment (preparations for Expo 2020 include the expansion of the metro, airport and road network), improvements in market transparency and the increased availability of quality investment stock, and Dubai is ensuring it can compete with the world's top tier of global cities.

**MARIA MORRIS**  
Partner, Residential Sales  
Knight Frank UAE

3 / NAIROBI

Bringing work and home life together in mixed-use developments is a rising tide globally – are there similar examples in Nairobi?

Nairobi, like many regional hubs in emerging markets, has a rapidly-expanding population and the city's infrastructure struggles to keep pace. One challenge that this creates is traffic, which means a large amount of time is spent sat in the numerous tailbacks that occur in and around the city. As a result, the concept of live-work-play mixed-use developments is rapidly catching on, with a number of projects offering office, residential and retail elements within one scheme.

Garden City, a mixed-use development by Actis on Thika Road, is a high quality shopping mall with blocks of high-end apartments and offices under construction. This is a model set to be mirrored by Centum's Two Rivers development, and The Pinnacle which has just broken ground on Upper Hill. Simple solutions are also being used to create mixed environments by linking separate neighbourhoods. For example, the new footbridge over the Nairobi River connects an office development, 14 Riverside Drive, with the residential development Riverside Park further illustrating this growing desire to be able to walk to work.

**BEN WOODHAMS**  
Managing Director  
Knight Frank Kenya

4 / TORONTO

What measures aimed at taming house price growth have been introduced in Toronto, and how much impact are they having?

The provincial government introduced at the end of April 2017 new legislation designed to cool the housing market. It's too early to determine what, if any, impact these measures will have, but many industry experts feel they will have little to no long-term effect.

Planning policy in Ontario over the past decade has favored densification over new greenfield ground-level development. This has had the effect of limiting the supply of homes. Basic economics says when demand exceeds supply, prices go up. In Toronto, the average detached home now costs in excess of US\$1.5 million, driving many buyers into condos or out of the city.

Some people have been moving farther from the core, accepting commute times that in some cases exceed two hours. We are now starting to see substantial price increases in Toronto's bedroom communities. Buyers are at times lowering their expectations as to the type of home or the location that they can afford.

**MARC DEXTER**  
Associate Vice President - Toronto  
Newmark Knight Frank Devencore



# ONES *to* WATCH

Choosing a district that is on the rise is a tried and tested strategy when buying a home. Our experts identify the neighbourhoods in the Global Cities we see as strong opportunities.

OUR EXPERTS

**BUDA, AUSTIN**  
**GRAHAM HILDEBRAND**  
Director of Research & Marketing - Texas, Newmark Knight Frank

**DOWNTOWN, MIAMI**  
**ERIC MESSER**  
Research Services Manager  
Newmark Knight Frank

**ST LEONARDS, SYDNEY**  
**MICHELLE CIESIELSKI**  
Head of Residential Research  
Knight Frank Australia

**HARUMI, CHUO WARD, TOKYO**  
**NICHOLAS HOLT**  
Head of Asia Pacific Research  
Knight Frank

**SARRIÀ-SANT GERVASI, BARCELONA**  
**MARK HARVEY**  
Head of European Sales  
Knight Frank

**BUDA, AUSTIN**  
Buda is booming. Only 20 miles to the south of Austin, Texas, Buda is one of the fastest-growing suburbs in the local market and is likely to remain so in the future. Its location along the I-35 corridor and median home sales price of US\$250,000 keep Buda in high demand with young families and first-time home buyers. However, tightening inventory levels are pushing demand farther south toward San Marcos, a commuter city of Austin that has seen its median sales price jump 42% this year.

**DOWNTOWN, MIAMI**  
Residential development is thriving in Downtown Miami. In the Central Business District, the completion of Brickell City Centre added approximately 800 residential units and plenty of retail to the Brickell submarket. The two expanding sub-markets, Downtown and Edgewood, have over 2,700 units under construction. Downtown’s next luxury residential project, Miami World Center, is set to break ground in 2017, offering 500 plus residences, ample office and retail space, and access to the Brightline intercity rail system. Continued infrastructure expansion has made Miami one of America’s fastest developing cities.

**ST LEONARDS, SYDNEY**  
Located on the lower North Shore of Sydney, St Leonards stands out as a key area of growth with its population projected to double by 2030. US\$6 billion will be spent upgrading local infrastructure, including an additional Metro station to be operational by 2024, with 3,700 new apartments forecast over this time. The suburb will be one to watch as it transforms from a traditional office and industrial market with world-class hospital facilities, into a vibrant, mixed-use neighbourhood.

**HARUMI, CHUO WARD, TOKYO**  
Heading towards the 2020 Olympics, the redevelopment of Tokyo Bay could provide potential opportunities for property investors. The Harumi area, which will act as the Olympic Village, will see around 5,000 new units released to the market after the Games. Although investors will have to keep an eye on the demand and supply dynamics - the low cost of debt and the relatively favourable demographics in central Tokyo compared to the national picture means that this is certainly a neighbourhood to keep an eye on.

**SARRIÀ-SANT GERVASI, BARCELONA**  
The area to the west of Paseo de Gracia, running parallel to the Avenida Diagonal, is undergoing a transformation. This southern tip of the Sarrià-Sant Gervasi neighbourhood, one of the city’s key business districts, depicts Barcelona’s heritage at its best: grand apartment blocks with wrought-iron balconies nestled close to Turó Park and surrounded by tapas bars and pavement cafes. International developers are increasingly active in the area seeking prime development or conversion opportunities. Prices for a modernised apartment in the neighbourhood are nudging US\$830 per sq ft.



Wind Surfing in Tokyo Bay



# CAPITAL CITIES

Investors are increasingly looking to global real estate.

ANTHONY DUGGAN

Head of Capital Markets Research, Knight Frank

The global real estate markets are in the eye of a perfect storm of capital allocation. Investors across all asset types continue to attract additional capital but are, at the same time, wrestling with the current low yield, low return environment as well as shifting allocations away from some fund types such as hedge funds. In addition, there are worries around perceptions of stretched valuations for some publically traded bond and equity markets. This is leading to strategies being

increasingly tilted towards alternative investments, with real estate being a prime target for a large proportion of this capital due the attractiveness of its relatively high yield. This dynamic is driving strong demand for real estate across the largest, most liquid markets and sectors and, increasingly, as investors search for higher returns within the sector, across emerging markets and specialist real estate asset classes.

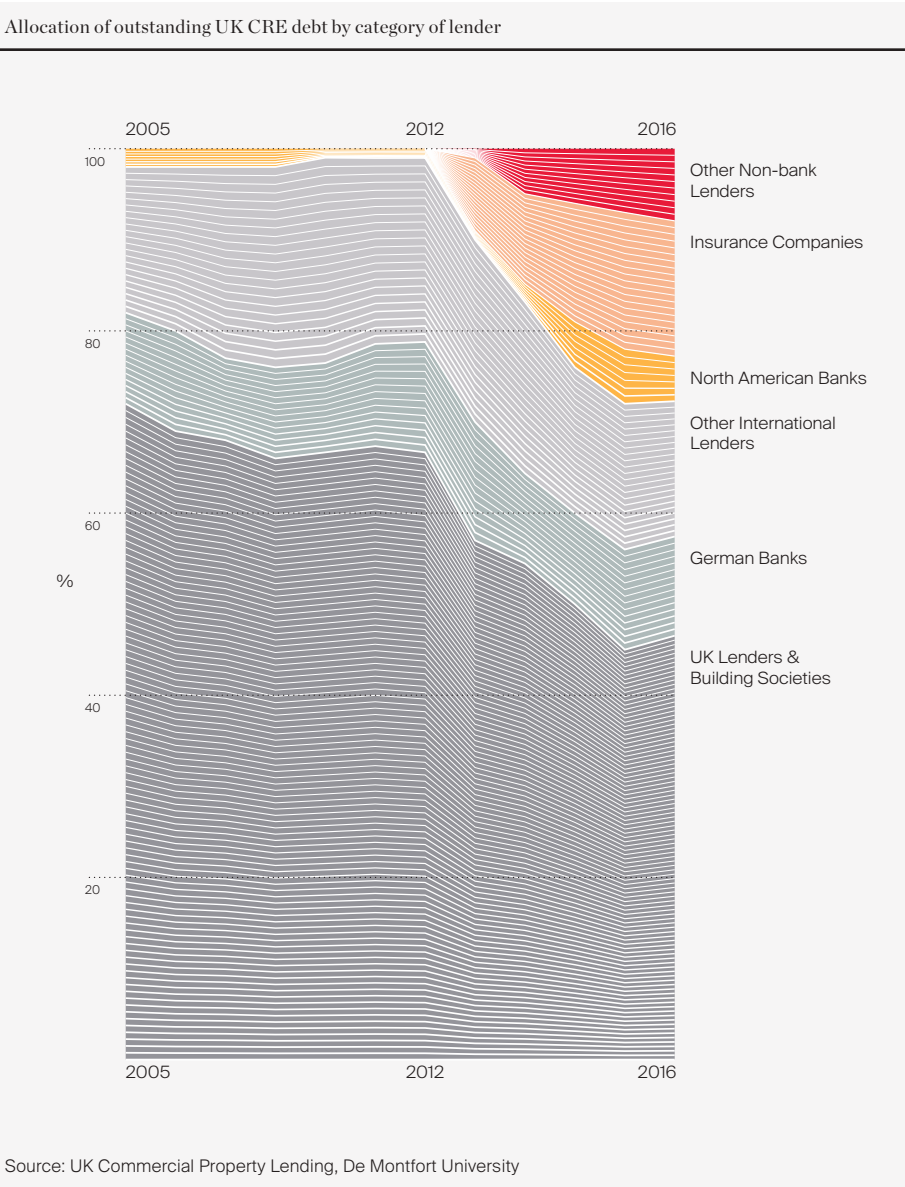
EVOLVING STRATEGIES

As you might expect, when it comes to best in class for real estate strategy, there is no single right answer. Each investor has individual requirements and ambitions for their capital and this manifests itself into distinct and nuanced approaches. Add the fact that every property is different in some way, and you get a marketplace that requires subtlety, expertise and, undoubtedly, flexibility.

Indeed, as the ocean of capital chasing real estate both broadens and deepens, even the traditionally clear demarcations between investor types in the real estate space are morphing. Private Equity funds have been widening their offerings with major investors including Blackstone and Carlyle raising core-plus funds to complement their more opportunistic capital. Institutional investors are broadening both the types of assets they buy, including an increasing weighting towards specialist sectors, and the variety of exposure to real estate including products such as debt funds.

GROWTH IN DEBT

In Europe, until recently, commercial real estate debt was seen as a product offered by banks using their balance sheets and a growing Commercial Mortgage Backed Security market. However, following the Global Financial Crisis in 2008-2009 many banks retrenched from the market in the face of increased regulation and legacy asset issues. In their place, this space has been filled, at least in part, by investors traditionally focussed on direct real estate ownership; attracted by the returns available, a legal charge on the underlying asset and the loan to value ratio protection from valuation falls. The broad variety of these new entrants means debt is increasingly available, from senior debt through to



Left: Aerial photography of New York City  
Right: LAX Airport: Infrastructure assets are drawing attention as investors cast the net wider

higher margin non-senior positions including junior lending, mezzanine, stretched senior or B notes. At the same time, institutional lenders are gradually diversifying their exposure to specialist asset classes such as student housing and healthcare debt. These new players in the market now have significant capital to deploy to debt strategies. However, they will increasingly be in competition with the traditional bank lenders who we expect to start to rebuild their exposure to real estate. As legacy issues are sorted and those banks in economies with rising interest rates start to attract substantial capital, there will be increasing pressure to lend. The resultant impact on the global property markets could be significant. The market cycle so far has been driven primarily by equity capital and conservative lending; an increase in debt at the same time as overall capital allocations to real estate continue to grow is likely to add another stage to the maturing cycle.





La Défense, Paris: Super Cities are expected to continue to see high volumes of investment

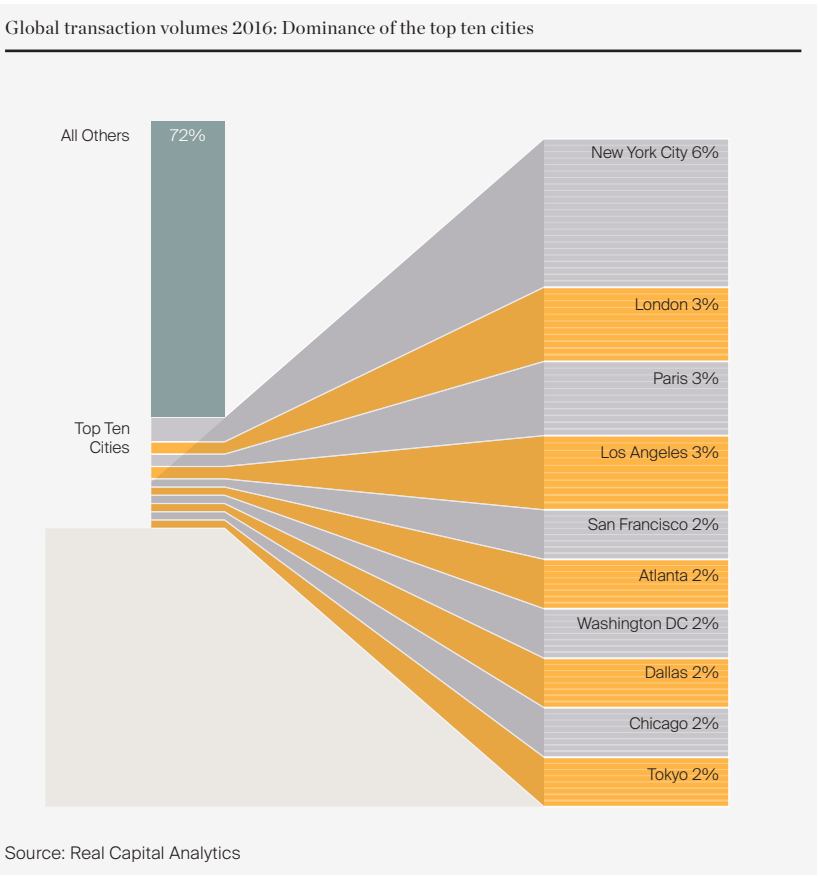
TARGET LOCATIONS

Overall, as more capital flows towards real estate, both equity and debt, the competition for assets is only going to get fiercer. We expect the major economies and their Super Cities to continue to attract the majority of this activity but, increasingly, investors will look to emerging markets for higher returns and less competition.

EMERGING MARKETS AND MOMENTUM CITIES

Indeed, we now observe greater volumes of capital flowing towards those markets that have taken longer for their economies to recover since the financial crisis and hence have lagged the market cycle so far. Many are now showing real signs of improvement and stronger occupier dynamics that will, in turn, lead to positive rental growth and capital value outperformance.

The locations that will outperform at this point in the cycle are the Momentum Cites. As discussed throughout this report, these cities are going through an evolution driven by a compelling mix of education, lifestyle, infrastructure, technology and real estate that makes them the places where people want to work, shop, play and live. In a virtuous circle, this mix attracts further domestic investment, which helps to create additional momentum and, importantly, the liquidity and performance needed to draw in global real estate investors.



An increase in debt at the same time as overall capital allocations to real estate continue to grow is likely to add another stage to the maturing cycle



AUCKLAND:  
BLURRING  
THE LINES

RACHEL MCELWEE  
Head of Research  
Knight Frank New Zealand

Mixed-use development is reshaping Auckland's central city, blurring the lines between work and living environments.

The largest urban regeneration project currently underway in New Zealand, Wynyard Quarter, is transforming the former industrial port into a mix of residential, retail, leisure, hotel and office space. New types of purpose built spaces will be created such as the innovation hub, housing a campus-style precinct fostering creativity, technology and originality for start-up companies. A diverse range of tenants include the Auckland Theatre Company, financial firm ASB, architects Warren and Mahoney, the Hyatt Hotel Group, and multinational dairy co-operative Fonterra.

When completed in 2030, Wynyard Quarter will house approximately 3,000 residents and 25,000 workers. The redevelopment covers 37 hectares of land and stretches three kilometres along the coast. Investment backing for the project came from off-shore, private investment, third sector and government sources. The waterfront could be further transformed if Auckland stages the next America's Cup in four years' time.

Auckland's Sky Tower



# EVOLVING MARKETS

What opportunities are there for real estate investors in Boston, Frankfurt, Shanghai, and Madrid? Find out more from our experts.

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Government plans covering 2016-2020 should increase the output of service industries to a level where they account for 70% of Shanghai’s GDP by 2020.

Shanghai’s Towers: The city’s real estate needs have changed with the rise of service industries

*Jonathan Sullivan, Research Manager-  
Boston, Newmark Knight Frank*  
**HAS RECENT REDEVELOPMENT IN THE CITY  
CHANGED WHERE INVESTORS ARE WILLING  
TO ACQUIRE REAL ESTATE IN BOSTON?  
WHICH DISTRICTS ARE UP-AND-COMING?**

Redevelopment activity in Boston, including within its vibrant Seaport District, has yielded a series of high-profile tenant relocations and robust investor activity. Amazon just became the Seaport’s newest big-name tenant, following the likes of GE and Reebok. GE is moving its headquarters from Fairfield, Connecticut, while Reebok is relocating from the Boston suburb of Canton. The district has become the place to be, driving construction activity as well as record-level pricing.

Obstacles to new development in Boston persist, notably site availability and permits, while new construction demand is arguably at an all-time high. The Seaport’s transformation has been critical in satisfying the demand for both new and trendy offices, and multi-family units.

Investors are also focusing on fringe locations with immediate connectivity to Boston and where infrastructure improvements are underway. Recently, Somerville agreed to redevelop 15.5 acres in Union Square into a 2.3 million sq ft mixed-use project.

*Ralph Schonder FRICS, Managing Partner,  
Knight Frank Invest Germany*  
**WHAT IMPACT WILL BREXIT HAVE ON THE  
FRANKFURT INVESTMENT MARKET?**

Germany’s attractiveness as a safe haven for investment market has grown in the wake of the UK’s vote to leave the EU. The Brexit process has particular implications for Frankfurt, as Germany’s only skyscraper city is in a strong position to pick up demand from any financial sector occupiers deciding to relocate staff from London to the EU. To date, Brexit has had only a limited impact on the office take-up of Germany’s financial centre, but the first occupational deals that can be directly linked to Brexit are now beginning to trickle through.

Investors will be wary of Frankfurt’s vacancy rate, although that supply will allow the city to absorb a moderate level of new demand, even in medium-sized as well as large modern spaces, without significant upward pressure on rents. Investor interest will be even further stimulated, after a year-on-year growth rate for sales of more than 50% in H1 2017, if more Brexit-related leasing deals are signed; especially as the city currently offers higher-yielding opportunities than some of the other major German markets.

*Regina Yang, Head of Research & Consultancy -  
Shanghai, Knight Frank Greater China*  
**IS THE TRANSITION OF SHANGHAI’S  
ECONOMY FROM MANUFACTURING TO  
SERVICES CREATING NEW OPPORTUNITIES  
FOR REAL ESTATE INVESTORS?**

Shanghai’s economy is now in the process of shifting away from manufacturing to services. Government plans covering 2016-2020 should increase the output of service industries to a level where they account for 70% of the city’s GDP by 2020.

Driven by this economic transition, and coupled with the proliferation of the mobile services, e-commerce has quickly become a key driver of the economy. The increase for online retail sales has in turn led to significant demand of warehouses. In recent years, investors have also shown great interest for this asset class. Domestic developers and financial institutions including Vanke, Ping’an, and Greenland have expanded their presence in warehouse market. Limited supply and higher returns have also propelled warehouses to become the third most sought-after asset class after office and physical retail. As the macro-environment continues to drive e-commerce this market segment will see further growth in the foreseeable future.

*Humphrey White, Managing Director,  
Knight Frank Spain*  
**WHICH DISTRICTS IN MADRID AND WHAT KIND OF  
PROPERTIES ARE IN DEMAND WITH INVESTORS?**

Madrid has been a key target market for international property investors since the beginning of 2014. Commercial investment has been performing well since that year and, so far in 2017, office investment has already reached US\$810 million, 5% above the same period last year. Although almost every quarter has been a record-breaker, property investors are still able to find opportunities in Madrid. Investors follow a research-driven rationale: net take-up has been increasing since Q3 2013 and the capital’s rent levels are still 28% below the peak, and significantly lower than other core markets in Europe.

Offices have been the preferred investment for many property investors: SOCIMIs (Spanish REITs), investment funds, family offices, PropCos and Sovereign wealth funds. Madrid’s CBD is the most popular district for office investment, followed by the Northern “Nudo Norte” submarket where many multinational firms have headquarters - this area is a natural extension of the CBD.



# Hot Zones

Much cross-border property investment piles up in the world’s mega cities, but for those willing to cast their net wider, there are excellent cities that are sometimes overlooked.

There is now a huge array of ‘top ten’ city rankings, looking at everything from house prices to financial sector activity to the number of tech start-ups. Certain cities dominate the many rankings, like London, Hong Kong, and New York City, and unsurprisingly they have been popular with international real estate investors in recent years. However, there are other cities, which are as well run, have very similar economies to these big centres, and in some cases offer better growth prospects. The Google office in Copenhagen or Jakarta has the same tenant as the headquarters in Silicon Valley, and in 2018 we expect to see more investors pursue this line of thinking. Below are five Global Cities that we see drawing more overseas capital in the future.

**PITTSBURGH**

A fast rising tech market, Pittsburgh has seen more than 70 IT-focused firms headquartered in Silicon Valley and elsewhere open local offices over the past 10 years. Amazon, Apple, Facebook, Google and Uber are among the users that have caused rents and property values to surge. The energy, financial and business services, healthcare and life science industry sectors remain well represented within Pittsburgh. However, the city’s status as a growing technology hub, and hotbed for artificial intelligence and autonomous vehicle development, is triggering unprecedented revitalization. *Pamela Lowery, Vice President Research - Pittsburgh, Newmark Knight Frank*



Pittsburgh



Amsterdam

**AMSTERDAM**

Amsterdam is an increasingly attractive destination for investors seeking an alternative to more expensive European markets such as London, Paris and Berlin. High office vacancy rates were previously a concern for those looking to deploy capital, but availability is now rapidly tumbling and supply shortages have emerged in the most sought-after office districts. Combined with strong demand from the city’s vibrant and expanding technology sector, tight supply will drive rental growth, and create opportunities for new development, particularly in central areas. *Matthew Colbourne, Associate – International Research, Knight Frank*



Seattle

**SEATTLE**

Amazon’s rapid growth has cultivated an innovative and competitive market, making Seattle one of the world’s leading tech hubs. Companies large and small are migrating to Seattle in order to access one of the most educated workforces in the U.S. With the completion of its latest construction projects, Amazon’s footprint will grow to over 12 million sq ft. Thanks to Amazon and other titans including Microsoft, Costco and Boeing, the region has supported and sustained growth through all economic cycles. *Blake Bentz, Research Coordinator – Seattle, Newmark Knight Frank*

**MANILA**

With a population close to 13 million people, Manila lies at the epicentre of the unprecedented growth occurring in the Philippines’ real estate market. Opportunities to invest in property development are amplified by the country’s attractive investment grade rating, high GDP growth rate, and strong macro-economic fundamentals. Increased cross-border investment is expected in the forthcoming years, especially as commitments amounting to US\$24 billion in real estate and infrastructure development from China are set to position the Philippines as a regional hub. *Jan Paul D. Custodio, Senior Director - Research and Consultancy, Santos Knight Frank*

**BENGALURU**

The IT sector in Bengaluru has transformed the city’s character, turning the pensioner’s paradise into a bustling cosmopolitan hub. This has stirred up its real estate market, which has become a major global office destination. The inclusion of Bengaluru in the Smart City list - an ambitious Indian government project to enhance liveability in urban centres, will lead to improved infrastructure; providing smart solutions to bridge service delivery gaps and enable technology use. This will further attract real estate investors to the city. *Vivek Rath, Vice-President - Research, Knight Frank India*



Bengaluru



Nabil AlKindi is re-shaping Dubai’s DIFC, adding more culture, leisure and public areas to a global business centre.

The Dubai International Financial Centre (DIFC) first opened in 2004, creating a new financial hub to serve the Middle East, Africa and South Asia (MEASA) region. Through a combination of offering international standards of regulation, common law courts, and high quality business premises, it has flourished. Mindful of future trends, the DIFC is evolving to match the changes in the global economy.

Nabil AlKindi, Chief Real Estate Officer of DIFC, speaks to Knight Frank about plans for the centre’s future.

**It is surprising to think that the DIFC was only established in 2004, given its size today. How has such rapid growth been achieved?**

Having begun with 19 companies and 75 professionals in 2004, DIFC is now home to over 1,700 firms with close to 22,000 employees – milestones of which we are enormously proud.

DIFC serves a broad market, spanning the MEASA region. DIFC was conceived as a much-needed gateway to this market, and has quickly achieved a strong track record as a financial hub where ease of doing business is paramount. Our large, well-regulated and best in class ecosystem has, and continues to attract top financial and professional services firms from around the world. As part of our 2024 Strategy, we plan to grow threefold with the aim of becoming a global hub for the South-South economic corridor. The development of the DIFC master plan is an integral component in this growth strategy, as we aim to have 50,000 professionals working in the district by 2024.

**In most Global Cities more retail, leisure, culture, and homes are appearing in city centres. How is the DIFC responding to this trend?**

In the world’s most popular cities for lifestyle and business, the trend is moving away from single-use zoning to mixed-use developments. Rather than isolated office towers, business parks and shopping malls, people now want their offices and homes to be located at the heart of vibrant, integrated districts with easily accessible amenities and a community-focused, neighbourhood feel.

In keeping with Dubai’s reputation as a modern, forward-looking city, DIFC is ahead of this trend. We have always been more than a financial centre; we are also an active community of shops, offices, residential apartments, hotels, cafes and restaurants, art galleries, parks and open spaces. More than 20,000 people come to work here every day, and they also take advantage of our world-class amenities and events, staying after work for dinner, exhibition openings, the gym, socialising or events.



Gate Avenue, Dubai

We are also increasing our retail offering with the 660,000 sq ft Gate Avenue at DIFC, which will become the dynamic epicentre of the financial district when it opens in 2018, with more than 200 prime retail, dining and entertainment locations. Gate Avenue at DIFC will feature iconic design, including a series of miniature Gates and a large, modern mosque, creating a vibrant urban living centre. The development will seamlessly connect all the various elements and buildings within the district through a beautiful underground space and an open-air promenade of around 1 km, to serve office workers, residents and visitors alike.

Gate Avenue at DIFC reinforces the Centre’s offering as a premier destination for lifestyle, business and finance. Our exceptional infrastructure and quality of life draw employees and visitors not just from elsewhere in the UAE, but also from around the world, and we’re proud of our contribution to developing Dubai’s reputation as a global business and tourism hub. As part of the 2024 Strategy, DIFC continues to develop with the ambition to attract thousands more individuals and businesses in mind.

In DIFC’s Gate Village, The Exchange is currently under construction and will offer an additional 114,000 sq ft of office space and 33,000 sq ft of retail space from 2018. A concourse floor, located on the podium level of The Exchange, will offer two world class restaurants, fronting onto ‘The Exchange Square’, a landscaped piazza. There will be additional restaurant space on the rooftop. The development will include a state-of-the-art business centre, and seven floors of office space. Long-standing DIFC tenant, Nasdaq Dubai will also relocate to The Exchange.

**In five years’ time, what will be the characteristics that make an office building ‘best in class’?**

Modern, forward-thinking multinationals and entrepreneurs are already looking to locate in safe, vibrant neighbourhoods in trendy global hubs like San Francisco, Tokyo or Dubai. Companies are looking for areas where their employees don’t just come to work, but can also plan their breakfast meetings, break out of the office into stylish coworking zones, check in on the go with free Wi-Fi, shop or work out on their lunch breaks and hang out after hours for cultural activities. DIFC is a vibrant mixed-use community, which offers a variety of cultural activities, retail, dining and entertainment, enhancing the quality of work life for our member companies and residents. The district is master planned with all the necessities and luxuries of modern life within walking distance.

With qualified candidates in high demand, sophisticated, high quality office space is a key perk for attracting top recruits – and as social issues become embedded in the vision of many companies, environmentally friendly infrastructure, walkability and public transport links are becoming important. DIFC is committed to increasing the attractiveness of our commercial space, by offering innovative, energy-efficient offices equipped with next-generation telecoms connectivity.

In five years’ time, four walls and a computer will not be enough. Integrated mixed-use developments like DIFC offer dining, amenities and a sense of being engaged within an active community. We need to offer more thoughtfully planned urban districts, which combine business and office space with all the pleasures and necessities of modern life, smart infrastructure and a lively culture.





# TAKING on the WORLD

For occupiers, the business rationale for ‘going global’ is changing, creating some fundamentally different property requirements.

DR LEE ELLIOTT  
Head of Commercial Research, Knight Frank

The emergence of the Global Cities is a direct consequence of the on-going need for corporates to secure competitive advantage and commercial relevance. Yet neither the source of this advantage, nor the global geography of business which has derived from it, has been static. There have been four recognisable phases through which this global geography of business has evolved.

**PHASE 1: ADVANTAGE THROUGH SCALE**

Initially, significant office occupiers such as investment banks, accountants, management consultants, lawyers and the like, sought to drive growth through the simple exportation of services across the globe. This was a rudimentary strategy whereby the dots on the map signified the global coverage upon which competitive advantage was secured. The tier one markets of London, Tokyo, New York City and Paris were firmly to the fore.

**PHASE 2: ADVANTAGE THROUGH COST EFFICIENCY**

A second phase emerged as corporates sought to utilise global markets as a means of delivering cost efficient services. A corporate strategy based on scale was usurped by one focused on broadening representation in those cities where operating costs were lower than in developed economies. This led to a raft of corporate off-shoring initiatives, which placed customer and shared service centres in cities like Bengaluru, Cape Town, and Warsaw.

**PHASE 3: ADVANTAGE THROUGH PUTTING THE RIGHT THINGS IN THE RIGHT PLACE**

Next has been a push towards functional specialisation. Combining the learning from the previous two phases, corporates created global operational portfolios whereby functions, part-functions or entire service lines, have been placed in those global locations that can best provide the right human resources at a price point and skill level appropriate to the significance of that function or service.

**PHASE 4: ADVANTAGE THROUGH SPEED AND AGILITY**

We are now in a fourth phase of global business growth in which speed takes precedence over size. Emboldened, enabled and forever disrupted by technology, corporations go global to gain rapid access to the latest innovative ideas, and the talent pools generating such ideas, in order to utilise any competitive advantage before it becomes eroded. To achieve this, a corporation must have the systems, processes and platforms to leverage these short-lived moments of advantage, and at a global level.

In this phase, business success becomes a function of agility, connectivity – both physical and virtual - and the rapid capitalisation of good ideas. Crucially, the decision to go global is occurring at a much earlier point in the business life-cycle – again through the ability of technology to reduce barriers to entry. As we noted in last year’s Global Cities report, the emergence of tech and creative businesses with global intent or significance has brought various tier two cities, such as Austin, Berlin and Dublin, into firmer focus as global business centres and, hence, office markets of international significance.



THE TRUE IMPLICATIONS OF GOING GLOBAL

There are broader property market implications emerging from this fourth phase. The demand side of the property equation is changing and is forcing cities to change their ‘offer’ to occupiers. There are five key shifts:

1

**A BROADER POOL OF DEMAND WITHIN CITIES** – demand is now drawn from a deeper range of industry sectors and with a greater variation in the size of floor-space requirements. We have witnessed, for example the tech sector replace financial services as the dominant source of demand in the London market over a number of years, but also a small reduction in the average size of leasing deals across the city. Global Cities are no longer centres of singular sector excellence but rather markets that have diversity.

2

**A VERY CLEAR AND INTENSE URBAN FOCUS** - city cores, in markets such as Manhattan, are being re-born as places whereby innovative and creative talent can be sourced and secured. This is exemplified by companies such as Nike and Spotify expanding in New York City.

3

**THE PUSH FOR FLEXIBILITY** – in an environment of short-lived competitive advantage, occupiers are demanding flexibility in terms of building design, lease terms and, critically, tenure. On this last point, we have seen the rapid emergence of coworking space across Global Cities – one recent study predicts that there are currently more than 11,000 coworking facilities globally and that the market will have a Compound Annual Growth Rate of 24% in the years out to 2020. Coworking increasingly provides a solution not just for start-ups but also corporations who generate innovative products through smaller, creative teams.

4

**THE FLIGHT TO QUALITY AND SERVICE** – linked to points two and three, has been a growing occupier focus on securing high quality and heavily serviced space, which serves as a magnet in attracting and retaining talent to drive growth. This has been compounded by low levels of new office development over recent years.

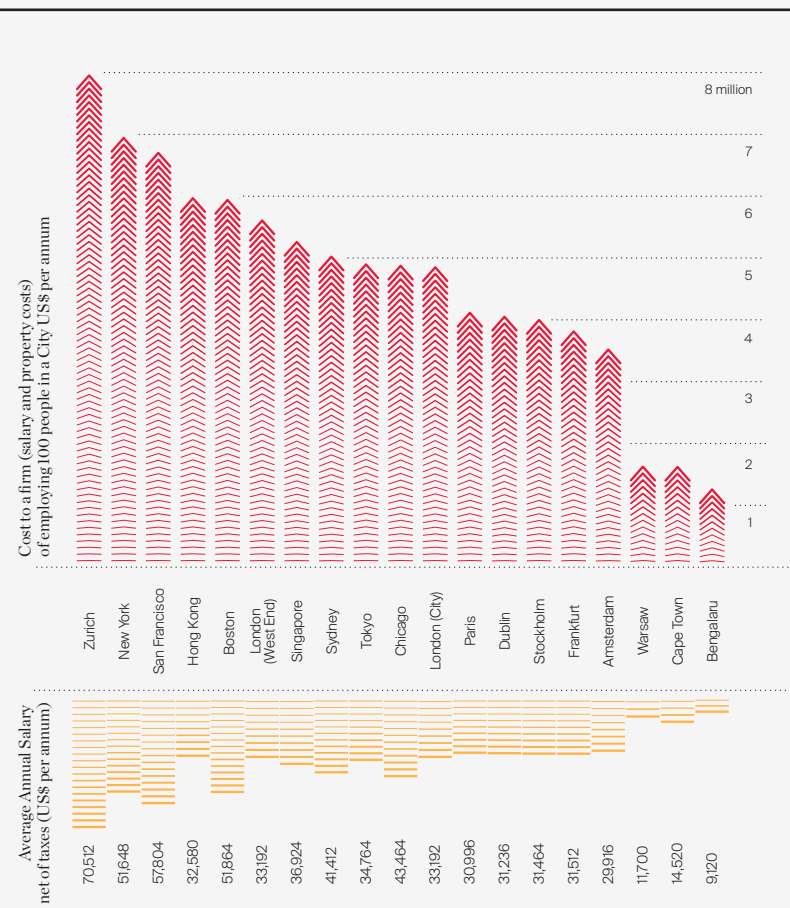
5

**SPACE AS AN ACCELERATOR OF INNOVATION** - the fourth phase of going global does not alter the need for offices but does change the way in which offices are utilised. No longer a battery farm for email processing and administration, offices are being used as innovation labs with corporates such as Coca-Cola, Telefonica, and Capital One creating distinct business accelerators and incubators within the Global Cities.

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We are now in a fourth phase of global business growth; in which speed takes precedence over size.

People and property costs across the Global Cities



Source: Knight Frank; Deutsche Bank AG 'Mapping the world's prices, 2017'.



CHHATRAPATI SHIVAJI INTERNATIONAL AIRPORT

THE RISE OF NAVI MUMBAI

A new business district was needed for Mumbai, beyond the city centre, to house its tech sector  
VIVEK RATHI, Vice President Research, Knight Frank India

Mumbai's CBD and Off-CBD comprises locations like Nariman Point, Fort, Cuffe Parade and Worli. Until the late 1990s, these districts accounted for more than 90% of the office stock in the city, and were the only meaningful locations in the city from an occupier's perspective; mainly on account of their indomitable status as the commercial and trade hub of the city. However, continued growth in commerce and a shortage of land in the CBD encouraged new office development post-2000 elsewhere.

Attracting occupiers mainly from the IT/ITeS sector, Navi Mumbai has emerged as the tech hub of the city, accounting for one-fifth of the current office stock. In the last decade, the emergence of Navi Mumbai, the satellite city of Mumbai, led to office developments mainly in locations like Airoli, Vashi, Mahape, Turbhe and Belapur. Central to its success has been the availability of large land parcels, which paved the way for development of modern buildings, offering large floor plates and affordable rentals.



# BUILT TO SERVE

What are main issues faced by occupiers in Beijing, Dallas, Mexico City, and Dublin? Four local experts provide their insights.

*David Ji, Head of Research & Consultancy, Knight Frank Greater China*  
**HOW WILL UPCOMING NEW SUPPLY RESHAPE THE OCCUPIER MARKET IN BEIJING?**

We estimate that Beijing will see approximately 35.5 million sq ft of grade A office space coming to the market between 2017 and 2021, mostly in the CBD. This means that the average annual supply in the next five years will reach 7.1 million sq ft. However, in the past ten years, the annual average absorption of grade A space was 4.6 million sq ft. The challenge facing capital is whether the market can rapidly absorb the glut of supply ahead. As occupiers will be spoilt for choice we believe that the balance of power in negotiations will switch from the landlord towards the tenant. As the quality of the new office space is much higher, competition between new buildings to attract prospective tenants is fierce, especially in the CBD area. Build quality aside, good location, and more importantly, incentives, discounts, and more flexible leasing terms will be factors in attracting occupiers.

*Graham Hildebrand, Director of Research & Marketing - Texas, Newmark Knight Frank*  
**WHAT ARE THE KEY FACTORS DRAWING SO MANY COMPANIES TO THE DALLAS SUBURBS?**

Dallas’s market benefits from a business-friendly climate, strong economy and thriving population. Its diversified employer base allows for growth during varied business climates. The current cycle has so far seen the creation of more than 732,000 new jobs, or roughly the population of Zurich, Switzerland, added to the economy. Rapid tenant growth has resulted from the sheer number of corporate relocations and expansions currently underway, in addition to those announced for future occupancy. The availability of land for corporate campuses, proximity to housing and depth of employee talent have made suburbs such as Frisco, Grapevine and Plano the destinations of choice for corporations, with nearly 100 such announcements made since 2015. These developed and planned locations, including the “\$5 Billion Mile” in Frisco, will add nearly 12 million sq ft of office space and are anchored by headquarters locations for JCPenney, FedEx Office, Liberty Mutual, State Farm and Verizon, among others.



*Juan Flores, Director of Research - Mexico Newmark Knight Frank*  
**HAS THE NEW GOVERNMENT IN THE U.S. IMPACTED THE WILLINGNESS OF INTERNATIONAL CORPORATIONS TO BASE OPERATIONS IN MEXICO CITY?**

International firms in Mexico have maintained their growth expectations and investment plans. Perhaps those expectations are not as optimistic as they were in the previous decade, but most of these companies have decided to ride out the storm. In the end, the ties between both economies are stronger than the actions any government may take to bring them down. The Mexico City market has become more modern in recent years, with a number of state-of-the-art buildings that are attracting a growing number of foreign users, making asking rents highly competitive. Occupiers are also taking into account such internal factors as space efficiency and financing options offered by developers. External factors, like access to public transportation, security and amenities, are also playing a major role in the occupancy of new space. Today, the occupier market is driven principally by businesses in the telecommunications, financial and insurance industries.

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**The Mexico City market has become more modern in recent years, with a number of state-of-the-art buildings that are attracting a growing number of foreign users.**

*John Ring, Head of Research, Knight Frank Ireland*  
**HOW HAS THE GROWING IMPORTANCE OF THE TECH SECTOR INFLUENCED OCCUPIER TRENDS IN DUBLIN?**

‘Flexibility’ has become a key word in the Dublin office occupier’s lexicon. Flexibility is highly valued in the tech industry due to the fast evolving nature of the sector which demands a high degree of adaptability to changing circumstances. With tech accounting for the lion’s share of Dublin’s office take-up – Google, Facebook and Twitter all have their European Headquarters here – the industry has brought this emphasis on flexibility to Dublin’s occupier market. As a result, landlords have had to react. Hence, we are seeing the traditional 25-year institutional lease of old giving way to more flexible terms of shorter duration. The drive for flexibility is also influencing occupier fit-out habits, with activity based working and coworking culture set to take-off in a significant way. Lastly, tech employees are seeking the flexibility allowed by living close to work, which is driving demand for city centre apartment living.

Torre Mayor, Mexico City



# A STATEMENT *of* INTENT

The move to a new office is increasingly being used to drive a wider process of business transformation.

DR LEE ELLIOTT

Head of Commercial Research, Knight Frank



Hudson Yards on Manhattan's West Side

The days when the office was viewed by business leaders as simply a container in which to place people are long gone. Today, the office has become a mechanism through which wider strategic objectives can be advanced. Consequently, the relocation process has a lot hanging on it.

In reviewing the key leasing transactions that have taken place in the Global Cities over recent years, it is abundantly clear that the majority of deals are indeed underpinned by one or more of the five broader strategic considerations shown at the foot of this page.

A case point is the recent reconfiguration of the Australian offices of KPMG. These moves saw the Big Four professional services firm commit to over 300,000 sq ft in Tower 3 at the International Towers Complex in Sydney's new Barangaroo district, and to a similar amount of tower space at Collins Square near Melbourne's Southern Cross Station.

KPMG realised that a relocation into new space presented a tremendous opportunity to re-set the business away from a 'conservative' image towards one that was more innovative and progressive. In short, an image that was aspirational to the next generation of KPMG people; but which also excited and empowered the existing workforce, whose average age is just 28.

It was also a move that illustrated to clients that KPMG was a business which created innovative solutions and services, via a collaborative ethos. In this sense, the internal configuration and fit-out of the space was as important as the modern, cutting edge exteriors of the buildings. Associated with the relocations therefore was a corporate mission to create the 'workplace of the future' – space that is productive through the application of technology; that enables



KPMG's new and vibrant Melbourne office

collaboration between employees by encouraging agility; and space which perpetuates a true sense of community. The total space taken by KPMG across the two cities has actually reduced – something that clearly supports the inevitable financial considerations of occupation. Yet despite this, the business is firmly re-set through its innovative use of well-considered and well-designed real estate.

This theme of using new office space to make a statement is also evident in the relocation of the New York office of global law firm, Cooley LLP. Moving from 100,000 sq ft in Midtown Manhattan's Grace Building, Cooley has committed to 130,000 sq ft across five upper floors at 55 Hudson Yards – a 50-storey tower at the heart of an exciting new neighbourhood emerging on Manhattan's West Side. As the firm approaches its centenary year in 2020, there is clear symbolism in a move to a LEED gold-rated building, which represents what Cooley's CEO, Joe Conroy, describes as being "among the world's most sophisticated law firm office spaces". This is a building which, as well as being a clear corporate commitment to New York City, also makes a bold statement about Cooley as a global law firm best positioned for the next generation.

These are just two examples of real estate being utilised by occupiers to drive a wider transformation of business profile or processes. There are many more playing out across the Global Cities on a daily basis. As real estate moves re-set businesses and enable strategic objectives to be fulfilled, competitive advantage ensues. This creates pressure for others to follow-suit. On this basis, real estate decisions will forever represent a clear statement of corporate intent.

FOR MANY BUSINESSES A MOVE TO A NEW OFFICE CAN:

1

SUPPORT THE TRANSFORMATION OF COMPANY CULTURE

2

USHER IN NEW WORKING PROCESSES AND BEHAVIOURS

3

AID THE ATTAINMENT OF CORPORATE AND SOCIAL RESPONSIBILITY (CSR) TARGETS

4

SERVE AS A KEY COMPONENT OF TALENT ATTRACTION AND RETENTION STRATEGIES

5

ACTIVELY PROMOTE A BRAND'S IDENTITY AND VALUES



# FUTUREVILLE

The role of real estate is changing in the retail, industrial and alternatives markets. The experience of the UK city of Bristol illustrates the new trends.

JAMES ROBERTS  
Chief Economist, Knight Frank

Bristol is known for its artistic graffiti, which give parts of the city a bohemian atmosphere

The emergence of new technology has sparked a debate on how much commercial real estate will be needed in the future. Change of use will be part of the solution, although there is an emerging picture of real estate finding its place in the new digital economy, by doing what a physical place does best – bringing people together to communicate and interact. This is leading to radical new formats reflecting different lifestyles and the possibilities of the new technology.

Bristol, in the south west of Britain, is a multi-faceted city. Historic, but a centre for hi-tech industries. A university city, yet famous for its street graffiti. A hub for lawyers and bankers, with a vibrant nightlife. This complex city offers insights on how real estate is adapting to trends in the digital economy.

THINKING INSIDE THE BOX

Containerization led to closure of the docks in the centre of Bristol – known locally as the Floating Harbour. This makes it ironic that within the expansive redevelopment of the Floating Harbour – with its modern apartments, riverside bars, and historic ships – a shopping mall called Cargo has opened, consisting entirely of shipping containers. Cargo’s retailers are niche, independent, and add a sense of the bohemian to the local area.

The container mall is a phenomenon that is spreading fast around the globe – from Toronto’s Market 707 to Boxpark in Shoreditch, to Re:START in Christchurch, New Zealand. The concept is proof that retail is evolving to match the lifestyles of city dwellers who are seeking new experiences, and comfortably move between the everyday and the unconventional. The container mall also shows how real estate is complementing the rise of e-commerce, by supplying the lifestyle experience in the retail mix.

THE HUMAN FACTOR

Internet and wifi never killed off the office – as some pundits predicted – in part because humans like to be around humans. Across the Global Cities start-up entrepreneurs, who could work from home, pay money and go through a daily commute in order to sit in a coworking office. This happens for many reasons. A spare bedroom in the suburbs is a lonely place to work, while face-to-face interaction has far more possibilities for conveying information than any email. All of this is true of retail, which is why the sector is adapting to the rise of online shopping by refocusing on human interaction and experience.

A citizen of Bristol’s Southville – once a factory district, but now a gentrified suburb peppered with artsy graffiti – can meet a friend in a shipping container café, and rub shoulders with the trendy crowd. They then go shopping in Cabot Circus (a modern retail mall), and try on designer clothes. If our Southville resident tires of the branded stores, then they could head over to Clifton, a well-heeled area known for its Georgian architecture, and explore the boutique shops and posh bars.

Following all this human interaction and variety of experience, the surprising part happens: the shopper goes home and buys the goods online. The same blending of physical and virtual worlds is found across the globe – from Chicago to Delhi to Melbourne. The process can also happen in reverse, with the initial research conducted online, but the actual purchase made on a trip to the city centre.



The container mall also shows how real estate is complementing the rise of e-commerce, by supplying the lifestyle experience in the retail mix.



Container malls, like Boxpark in Shoreditch, London, are a rising tide in retail



MULTI-CHANNEL WORLD

E-commerce is not a replacement for physical shops, but it has changed thinking on how a retailer interacts with the shopper. There is an overall retail experience that stretches beyond any one shop. This is not a new concept, but there is a growing realisation that the experience cannot be managed within a single mall or main street.

In the typical Global City today, one finds districts matching lifestyles which are interdependent upon other districts offering different experiences. Bohemian craft shops in one place, designer boutiques in another, and each playing a mutually beneficial role in drumming up trade. This generates a critical mass of shoppers within the city centre. Developers are applying more thought to the journey between these different locations. This is stretching beyond landscaped public realm, to include street markets, lunchtime concerts, and weekend events.

In the future we see further blurring of these lines between retail and lifestyle, with web apps allowing on-the-spot customisation of goods, for home delivery. Retail property will provide a ‘town square’ of idea generation and interaction, with other shoppers and store employees (who will increasingly become product experts) collaborating via social media to help us decide on the optimum product to buy. In the future, the choice of a wedding outfit could be crowd sourced.

FACTORY OR SHED?

Like many developed economy cities, Bristol has long since realigned from manufacturing to services. Consequently, industrial property in the region more commonly refers to logistics not manufacturing facilities. The rise of e-commerce has been a fillip for logistics property demand.

For logistics, a city is never just the municipal boundaries but takes in the wider economic zone of influence, including satellite towns, surrounding countryside, airports and port facilities. To set alongside the mega-sheds that serve such vast areas, the rise of e-shopping has increased demand for smaller, suburban sheds, where the goods can be transferred from trucks to small vans for local delivery. Another trend is co-location, with big distributors allowing partner companies to occupy a section of a shed.

Driverless vehicles and warehouse automation will speed through flow of goods, and accelerate the trend towards central facilities supported by suburban sheds, which in the future will turn into launch pads for delivery drones. Robotics will also create future demand for edge of city centre industrial units, as repair shops and storage facilities for driverless taxis and street cleaning robots.

With ever greater automation, the need to base manufacturing in countries with low labour costs is dwindling. This is bringing production back on-shore, and some warehouses just outside developed economy cities may be redeveloped as factories. In contrast, some factories in developing nations may switch to logistics use; as rising living standards creates demand for sheds from e-shopping firms.

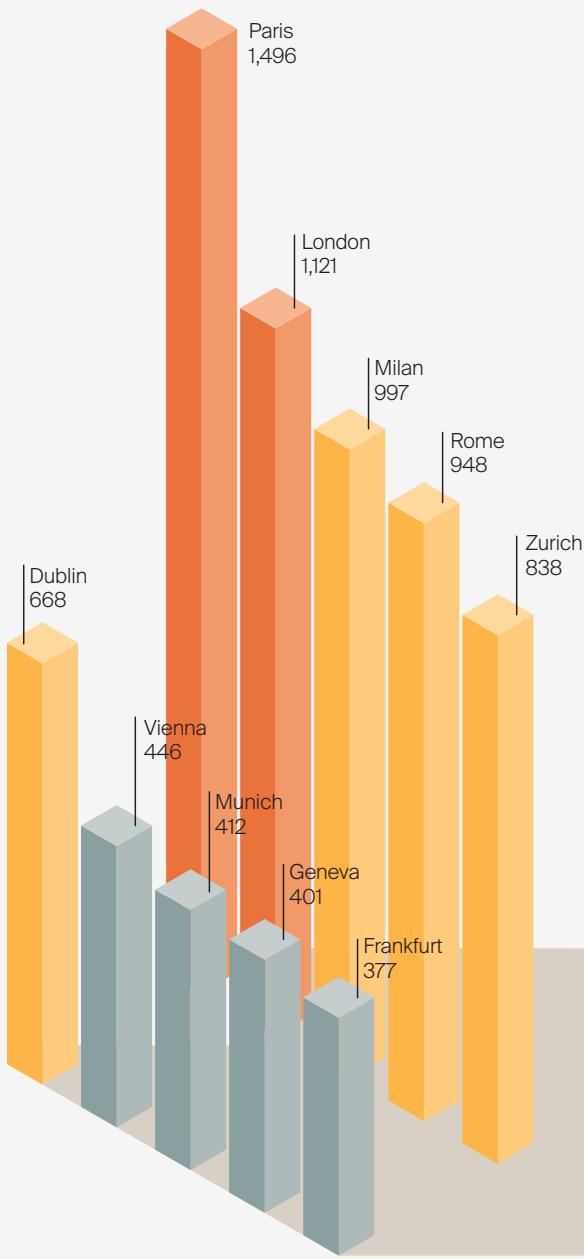
ALL CHANGE

With the advent of driverless cars, the need for so many parking spaces will dwindle. When you step out of a driverless Uber vehicle someone else will jump in. The huge expanses of car parking



The emerging picture is one of real estate repositioning itself to match changes in lifestyle initiated by the new possibilities of the technology we access.

Top Ten European Prime Retail Rents by City US\$ per sq ft



Source: Oxford Economics  
Note: Based on Q1 2017 figures, US\$ exchange rate based on Oanda.com for 31st March 2017

next to shopping malls and office buildings will be freed up for redevelopment. Fortunately, demand for other types of real estate is growing.

In 2016, 122 million Chinese tourists took holidays abroad, spending US\$109.8 billion overseas, with Thailand and Indonesia popular for holidays; and Japan and South Korea for ‘medical tourism’, according to CTA. However, just 16% of Chinese tourist spending happens overseas at present, pointing to further growth to come. Taken alongside increasing personal wealth in other developing nations, this bodes well for future growth in global tourism, and consequently demand for hotels and leisure property.

Bristol’s hotel and leisure market does well from the rise of staycation in developed economies, particularly short city breaks, creating demand for a variety of hotel and leisure formats. This can range from budget hotels to luxury spas. Tech disruption has reached the hotels sector, with the rise of online firms like Airbnb. However, hotels will always be able to compete on the experience factor, which has helped retail property to find its place in relation to internet alternatives.

Another real estate sub-sector that is common in Bristol is student accommodation. Its two universities are playing an ever greater role in the city’s economic and social life, and a variety of



Bristol's retail market ranges from Cabot Circus, a modern mall, to boutique shops in Clifton



Automation will bring more factories back to the west

needs and budget levels must be met. For foreign students cultural barriers can make ‘living out’ in a flat in the city difficult, while post-graduate students often seek better quality accommodation. Consequently, the variety and quality of student residences has broadened.

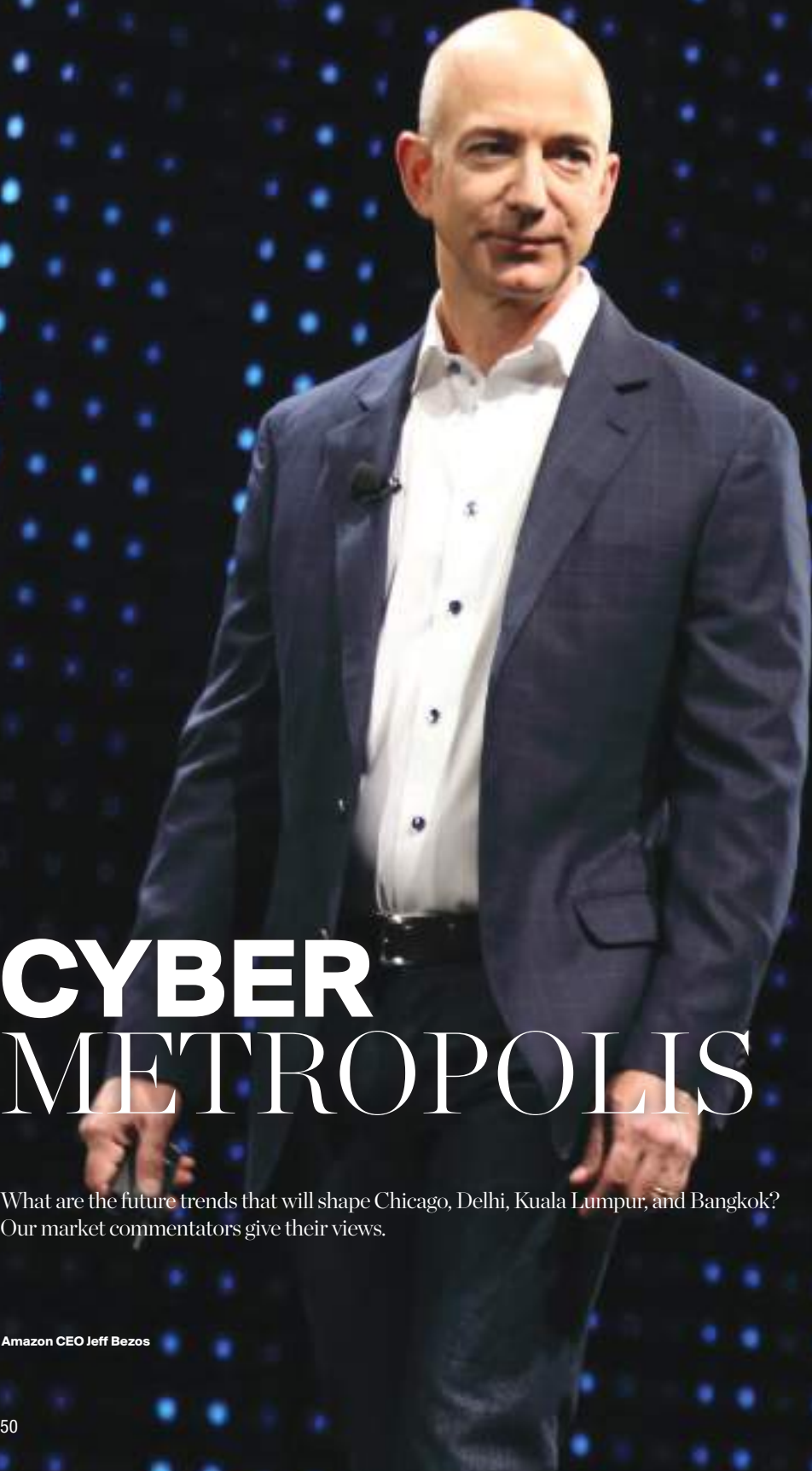
Moreover, the coworking office giant WeWork is taking the ‘student hall’ approach beyond academia, with its new WeLive communal housing business. This opens new possibilities in multi-family housing, another growing market in the modern city. Moreover, there is evidence that not all older citizens want to stay in the suburbs when children leave home, resulting in a return to city centre living for the senior demographic. In the long-run this could underpin a market for city centre retirement apartments and care homes, in response to a greying urban population.

REAL ESTATE’S NEW ROLE

The emerging picture is one of real estate repositioning itself to match changes in lifestyle initiated by the new possibilities of the technology we access. The internet is not making shops or offices redundant, but they are now repositioning as forums for human interaction, thus fulfilling a role that the online world struggles to replicate – the rich experience and riot of information that comes from being around other people.

There is further disruption to come. Robotics will bring factories back to the fringes of developed cities, and shift Asian factory cities towards service industries. New types of industrial property will be needed in a future world of driverless cars. As driverless technology frees up land for redevelopment, opportunities will emerge in the markets for hotels, student accommodation, and multi-family housing.





# CYBER METROPOLIS

What are the future trends that will shape Chicago, Delhi, Kuala Lumpur, and Bangkok? Our market commentators give their views.

Amazon CEO Jeff Bezos



**How is the rise of e-commerce impacting demand for logistics real estate in Chicago?**

In Chicago, the rise of e-commerce coupled with Americans’ preference for speedy deliveries has created unprecedented demand for distribution centers and logistics real estate. The demand for same-day or next-day delivery has helped drop the vacancy rate to new lows while causing construction starts to skyrocket. E-commerce has accounted for several of the largest transactions completed in Chicago in the last 18 months, with Amazon completing 4.4 million sq ft in deals.

Online retailers require more distribution space than traditional retailers, because they need to individually package single items. Historically, e-commerce distributors have demanded massive, single locations, but with the promise of faster delivery times the single warehouse model is becoming inefficient. Future demand for industrial space will come from the ‘last-mile’ fulfilment centers that are located along major highways and have sufficient loading dock infrastructure. These fulfilment centers will be key to establishing delivery networks that allow online retailers to achieve delivery deadlines.

**AMY BINSTEIN**  
Research Manager – Chicago  
Newmark Knight Frank

**How has the rise of online shopping in Delhi impacted demand for physical shops?**

Traditionally, Delhi has been an amalgamation of shopping streets and malls, but the latest addition to its retail landscape is the rise of internet shopping that is taking the capital by storm. Delhi has an Internet user base of 12.1 million making it a ready destination for online retailers. Coupled with this, factors such as favourable demographics and a fast-paced lifestyle have added to the attractiveness of the ‘click-and-sell’ model.

Online retail and physical shops are mutually supportive; as online shopping offers convenience and discounts, while shops allow the customer to experience the goods. This is leading to the synergy between modern malls and internet shopping in Delhi. Brands such as H&M, GAP, and Nike offer multiple touch points to customers, and see internet shopping as a natural extension of their offline business in malls. This ground shift in the buying pattern of the populace, points towards a paradigm shift in the retail market.

**ANKITA SOOD**  
Lead Consultant, Research & Advisory  
Services, Knight Frank India



**How are new and upcoming infrastructure projects changing the Kuala Lumpur real estate market?**

The public transport network serving Greater Kuala Lumpur (GKL), home to more than 8 million people, at about 45 km rail length per million people is comparable to that of Singapore and Hong Kong. The 51 km Sungai Buloh-Kajang mass rapid transit line (MRT Line 1) provides interchange with the light rail transit (LRT), KL Monorail, KTMB Komuter, and KLIA Express lines. GKL’s connectivity is set to improve with additional rail lines totalling 130 km in the development pipeline or proposed.

Thanks to the expanded transport infrastructure, decentralised office locations such as Kuala Lumpur Sentral, Damansara Heights, Bangsar South and the Taman Tun Dr Ismail - Bandar Utama – Mutiara Damansara corridor, continue to draw interest from local and multi-national occupiers. There is also a rise of transit-oriented developments (TODs) and emerging property hotspots in GKL.

Moving forward, the Kuala Lumpur-Singapore High Speed Rail (HSR) project is a game-changer for the two countries.

**JUDY ONG**  
Executive Director - Research  
Knight Frank Malaysia

**How are technological advances changing the real estate market in Bangkok?**

E-commerce has transformed the retail landscape in Bangkok, however bricks-and-mortar stores will stay. To maximize the efficiency of their existing physical stores, we expect to see retailers growing sales via a multi-channel strategy, where offline and online stores support each other.

Retailers that are smart at balancing and optimizing the customer experience across channels are the ones that are winning. This is why we are seeing so many examples of online retailers that are now opening physical stores. E-commerce is also generating more demand for office and warehouse space, as online firms have expanded aggressively, acquiring offices and warehouses to operate from.

Technology is likely to evolve at a faster pace and continue to transform the lifestyle of people. Technological advances will allow people to bypass existing infrastructure and developmental constraints, and the impact on real estate is likely to be positive as well as transformational.

**RISINEE SARIKAPUTRA**  
Head of Research and Consultancy  
Knight Frank Thailand







# ABOUT THE GROUP

At Knight Frank and Newmark Knight Frank, we build long-term relationships, which allow us to provide personalised, clear and considered advice on all areas of property in all key markets. We believe personal interaction is a crucial part of ensuring every client is matched to the property that suits their needs best – be it commercial or residential.

Operating in locations where our clients need us to be, we provide a worldwide service that is locally expert and globally connected.

We believe that inspired teams naturally provide excellent and dedicated client service. Therefore, we have created a workplace where opinions are respected, where everyone is invited to contribute to the success of our business, and where they are rewarded for excellence.

The result is that our people are more motivated, ensuring your experience with us is the best that it can be. Together, Knight Frank and Newmark Knight Frank have a global platform of more than 15,000 people across 418 offices in 60 countries.

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