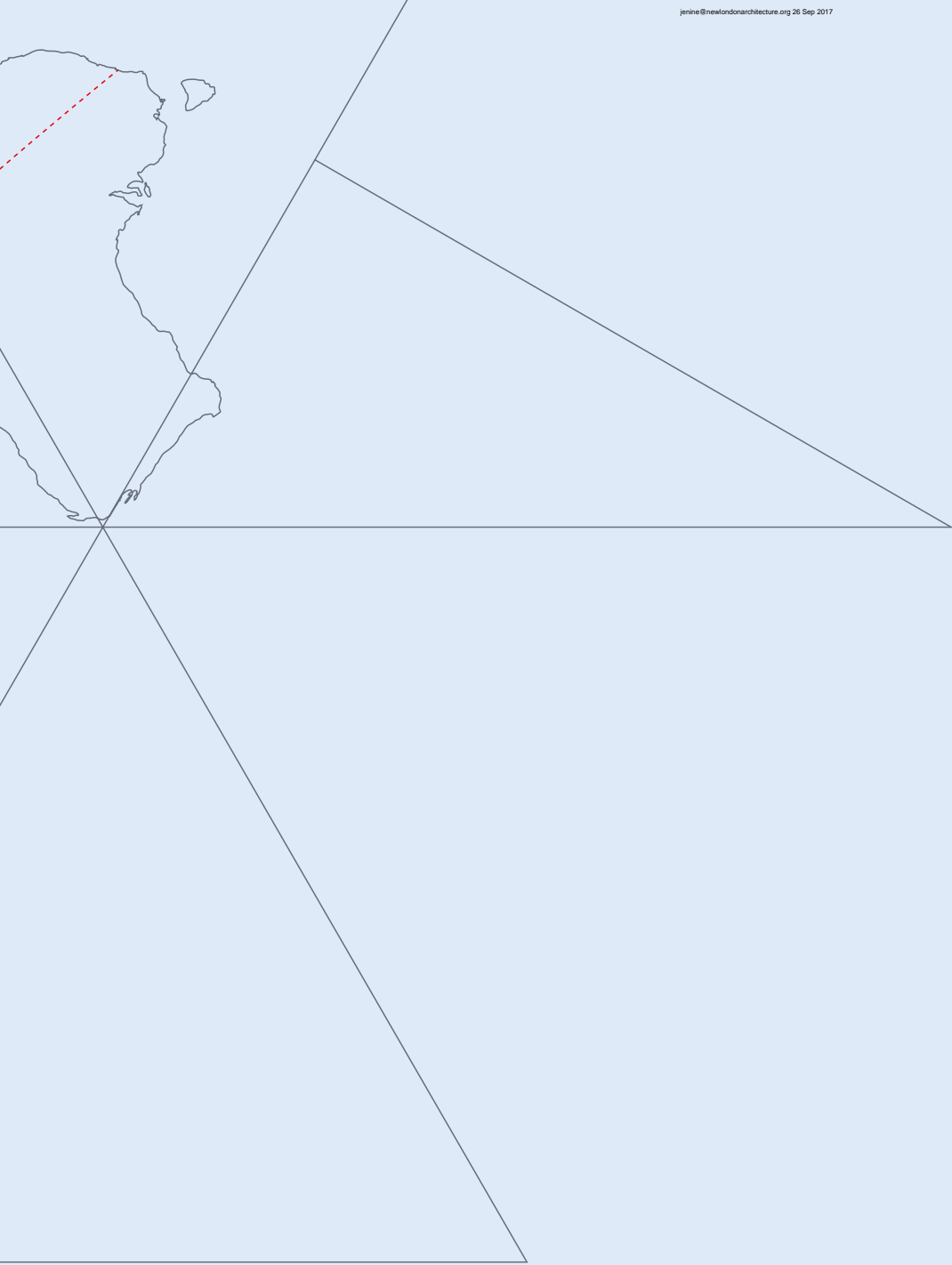


The background of the cover is a light blue map of the British Isles. A thin grey grid is overlaid on the map. A series of red dashed lines radiate from a central point in London, extending across the map to various locations, suggesting a network or influence. The title text is positioned in the center-right of the map.

LONDON: DESIGN CAPITAL

BUILDINGS / PLACES / CITIES



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LONDON: DESIGN CAPITAL **BUILDINGS / PLACES / CITIES**

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Sir David Adjaye

Creative Capital

As a London based practice with offices based on three continents and a team of highly creative architects currently engaged in design and development opportunities around the globe, I welcome the NLA's latest insight study and exhibition *London: Design Capital* for two reasons. Firstly, it is an amazing showcase of the degree and extent to which our capitals' creatives are innovating, influencing and inspiring the built environment – a testimony and celebration of London's status as a world leading creative metropolis. Secondly, the exhibition and study is a perfect platform for further discourse and discussion on how we as professionals can do better as an industry and for society in general.

London must, however, not sit on its laurels. There is still, and always will be, more to do and more to learn. We are living in an age of flux and change and if we want our city to retain its leading edge in creative intellect we also need to use our voices. It is also imperative that as an industry we need to fully support diversity that will nurture the rich and balanced knowledge so vital for the creation of exceptional design and finally as a society we need to continue to listen and learn from our global neighbours and communities.

This insight study looks into such issues and I, for one, look forward to the debate and the positive changes that will ensue with the key aim of strengthening London's future creative heritage.

A stylized, handwritten signature in grey ink, appearing to read 'D Adjaye'.



Peter Murray

Global Business

London is the world's global capital for creative design and construction skills. Just as the City of London became the financial capital of the world, so London has benefitted from its history, its location, its legal and education systems to create a hub of built environment skills that are in demand around the world. It is the first city to have so converted the exporting of professional skills into a truly global business.

The construction industry, from medieval masons on, have always been peripatetic – they go where the work is. But the means of managing that work has changed dramatically in the digital world.

When in the 1950s Jane Drew and Max Fry were invited by Indian Pandit Nehru to design Chandigarh, the new capital of Punjab, in order to carry out the project Fry and Drew had to close their office in London and move lock, stock and barrel out to India for the early stages.

Engineers like Arup were ambassadors for UK design skills. When the Sydney Opera House opened in 1976 the firm had offices in Northern Europe, Southern Africa, South and East Asia as well as Australia. International communications in those days were not easy – a flight to Australia cost as much as a three bedroom house and telephone calls were expensive, indistinct and had to be booked in advance.

Interest in overseas work intensifies when work at home dries up. In the 1980s, YRM built the Sultan Qaboos University in Oman. The modus operandi was to move staff out to Oman for the duration of the project with regular visits from partners to keep things on track.

Things were very different when the world economy took a nosedive in 2007. If an architectural practice wanted to work overseas all they needed was a plane ticket and a laptop. Design work could be carried out in one place, drawings in another with everything coming together in the Cloud. No longer did you have to relocate. The mechanisms for global working were all in place; architects of record and local design institutes did good business.

The skills that London has to offer today are hugely enhanced by the capital's diverse population and breadth of expertise, it is essential that this is understood by the UK government as it negotiates a Brexit deal. We support the Mayor's #londonisopen campaign and look to him to fight the corner for this important sector of the capital's economy both in Whitehall and in Brussels.

A stylized, handwritten signature in grey ink, appearing to read 'P Murray'.



1.1 What makes London a global city?

'London is a world by itself. We daily discover in it more new countries, and surprising singularities, than in all the universe besides. There are among the Londoners so many nations differing in manners, customs and religions, that the inhabitants themselves don't know a quarter of them.'

Thomas Brown, 1702¹

London has a well-founded reputation as one of the world's greatest creative and commercial urban centres, a result primarily of its rich and cosmopolitan mix of cultures, creative energy, diverse economy, spirit of entrepreneurialism, and world-class research and education facilities encouraging innovation in thinking and practice. Yet it does not operate estranged from other world cities. London is the crossroads of the world. Not just today but throughout its history, as the quote above demonstrates, it has acted as an interchange of international networks and has attracted people from every corner of the globe to live and work here.

There are many different social, economic, geographical and other conditions that have made London one of the world's truly global cities. Its population is one of the world's most ethnically diverse, with 50 non-indigenous groups having populations of over 10,000 people. More than a third of the capital's inhabitants were born outside the UK and – as widely reported during the run up to the 2012 Olympic Games – more than 300 community languages are spoken here, with Bengali, Gujarati, Punjabi, Cantonese and Mandarin most common alongside English.² Alongside this, at a practical level, London benefits from being the origin of the Prime Meridian, at Greenwich, at the centre of world time zones; from having a stable government and legal system; and from being the home of the English language, the lingua franca of commerce,

diplomacy, science, the arts and academia. London's well-established international transport links, by air, rail and sea, make it one of the best-connected hubs in the world, a prerequisite for facilitating business – as Mike McNicholas, Managing Director, Infrastructure, at Atkins UK explains, simply put, 'easy connectivity with our customers and colleagues internationally is hugely important'. A critical factor in the success of London's creative industries (see below) is their co-location with some of the world's most important financial companies and institutions, and the strength of London's economy as a whole – the economic output per person of London is estimated to be more than double that of the rest of the UK.³

However, as advocated in the Mayor's #Londonisopen campaign in wake of the Brexit referendum result – it is London's spirit of openness and inclusivity, and the way in which its environment and ethos facilitate the exchange and evolution of ideas, knowledge and innovation, that have particularly been at the heart of the success of its built environment and design industries. This is partly due to the constant movement of people in and out of the city – 'London relies on the fast-moving international influx that convenes in this great melting pot and then redistributes back out to all corners of the globe', says design journalist Max Fraser.⁴ It is also a result of the legacy of a reputation that views British culture and society (with London as a perfect microcosm) that is defined by flexibility, calculated risk-taking, and a certain willingness to bend the rules and to push against and test limits: an attitude characterised, according to Albert Williamson-Taylor of AKT II, as 'lateral thinking and an eccentric nature that allows us to see other people's point of view'. It is this outward-looking, open attitude to new influences and ways of thinking from all over the world that underpins London's renowned status in built environment design.



Top: Hong Kong & Shanghai Bank, Hong Kong, Foster and Partners
© Ian Lambot

Above: Abadan Airport, Iran, Brian Colquhoun & Partners
© RIBA Collection



Top right: Max Fry, Jane Drew and Le Corbusier taking tea together
© RIBA Collection

Above right: Staatsgalerie extension, Stuttgart, James Stirling Michael Wilford & Associates © Alastair Hunter / RIBA Collections

1.2 What is the current contribution and profile of built environment industries to London's economy?

The huge value of London's built environment industries to London's economic success has been revealed for the first time in new research published in 2017 by the Mayor of London's GLA Economics unit in partnership with the London Festival of Architecture (LFA).⁵ It shows that London's architecture sector alone produces £1.7 billion of value in services and is, in fact, 38 per cent larger than other creative industries in London, including product, graphic and fashion design. Most importantly, the architecture industry in London is growing by 7.6 per cent every year – overtaking the creative industries (3.9 per cent) and the London economy as a whole (3 per cent). In relation to other built environment disciplines, other studies by the GLA comparing London with other global cities have shown that the value of construction sector output, at £16.9 billion, is higher than that of Shanghai (£16.5 billion), Hong Kong (£11.9 billion) or Dubai (£7.7 billion).⁶ The value of London's engineering exports has most recently been estimated at just over £1.7 billion.⁷ Net exports of architectural services are also increasing, and are worth £437 million more than two years ago.

The GLA/LFA research also shows that the architecture sector is a significant employer, with 22,800 staff. Most importantly, its international diversity and profile are a reflection of the rest of London – about one-third of these jobs are held by non-UK nationals. In some London practices that proportion is much higher: in KPF's London office, for example, it is just over two thirds (67 per cent) – 95 out of 140 staff. Another distinctive feature is the vast range of languages spoken in individual offices: at KPF it is 18, and, at AKT II, 30; even at smaller practices, such as Ben Adams Architects, 27 languages are spoken by a staff of just 60. In the construction sector, recent research shows that of the 350,000 people who work in London's

construction sector, 27 per cent are from the EU, 3 per cent are from other European countries, and 14 per cent are from the rest of the world. Looking ahead, there is also a need in the region of an extra 13,000 new workers each year until 2021 in order to plug the skills gap and meet the additional demands on the industry to deliver new housing and growth.⁸

1.3 How did London's built environment industries become a global brand?

London built environment practices and companies have been responsible for innumerable buildings that have helped to define the shape and profile of cities around the world, across Asia, the Middle East and Australia in particular. In doing so, names have become internationally recognisable: architects Foster + Partners, Rogers Stirk Harbour + Partners and multidisciplinary companies Arup and Atkins are among the best-known. The 19th century Victorian period – the great era of invention – saw the dissemination of pioneering approaches in architecture, construction and engineering across the then vast British Empire, encompassing about one quarter of the world's population and area at its height.

However, the association of London architecture with flair, creativity and originality is much more clearly seen from the postwar era, as the RIBA's 2014 exhibition and TV series *The Brits Who Built the Modern World* demonstrated. Post-war British architects and engineers such as Maxwell Fry and Jane Drew, Ove Arup, and Amyas Connell who had been at the vanguard of the Modern Movement in the 1930s were, alongside a younger generation, employed to create buildings that represented a progressive, outward-looking national identity, especially for newly independent countries of the former British Empire: 'ambitious, self-determined – and keen to catch up – emerging states imported skills and expertise from across the world'.⁹

This ambition to modernise through improving education and infrastructure is represented in the focus on universities and colleges – Fry and Drew’s Ibadan University (begun 1955) in Nigeria being a particularly notable example – as well as airports, hotels and conference centres at the dawn of the new jet age of international travel.

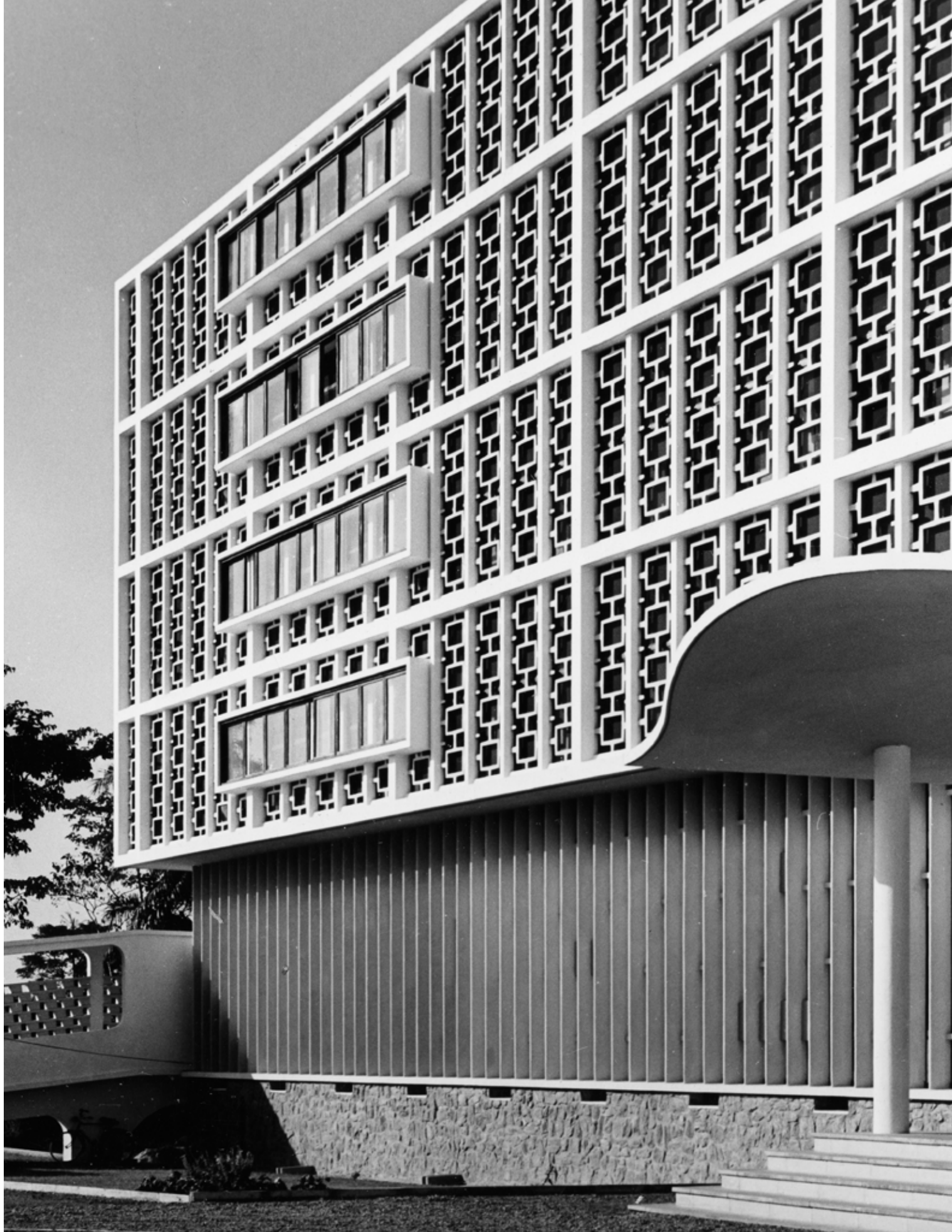
From the 1960s and 1970s onwards, however, there was a reaction against the established forms of modernism, as owing to the influence of Yale University in the USA and especially the Architectural Association in London (see below). The most important names of this generation – Richard Rogers, Norman Foster, Michael and Patty Hopkins, Nicholas Grimshaw, as the leaders of the development of the UK’s global brand – were all ‘moved by the romance of technology, joined to a belief that architecture should enable, emancipate and engage’¹⁰, an ethos that reached its culmination in the High-Tech style and perhaps still the two most famous and influential landmark projects built by London-based architects abroad – the Centre Pompidou by Rogers and Renzo Piano in Paris (1971–1977) and the Hong Kong Shanghai Bank by Foster (1979–86).

In the 1980s, against the background of a Conservative government and retrenched attitudes favouring traditionalist styles at home, ‘it became a journalistic trope that Britain created great architects but that they had to go abroad to achieve their best projects’.¹¹ This idea entered popular culture when it was famously celebrated in a 1984 TV advertisement for the Rover 800 car (another British export), which pulls up in front of James Stirling’s Neue Staatsgalerie in Stuttgart: one German nods approvingly to the other that it is the work of a ‘Britischer architekt’.¹² Zaha Hadid’s deconstructivist unbuilt competition design for The Peak leisure club in Hong Kong (1983) was perhaps the best embodiment of this startlingly bold approach to design, a concept that established her reputation internationally. As Rowan Moore has pointed out, the visual power of such designs and the way in which they seemed to embody

freedom, modernity and the future were also a major factor in the success of British architects globally. On the other hand, an approach that came to be defined by pragmatic collaboration between design, engineering and other disciplines to ‘build the unbuildable’ – one exemplified by the highly influential ‘total design’ philosophy of Arup – enabled innovative projects to actually be delivered. Signature projects and iconic designs commissioned for UK pavilions at international expos by the UK government have also played a significant role in the international acclaim and popular recognition awarded to London-based (and other British) designers: perhaps the best-known in recent years was the ‘Seed Cathedral’ at the Shanghai Expo 2010, designed by Thomas Heatherwick. During the six-month Expo it received more than 8 million visitors.

Underpinning London’s reputation as a global design capital over recent decades has undoubtedly been the strength and diversity of its educational offer, attracting the best talent from around the world. Within architecture, nowhere is this more apparent than at the Architectural Association School of Architecture in Bedford Square, the UK’s oldest institution of its kind, founded 170 years ago. In the 1930s the school was the centre of the leftist radical ideas of modernism, and in the 1950s and 1960s was associated with the avant-garde ideas drawing on the ‘pop culture’ of the time, led by Cedric Price and Archigram, when British music, fashion and design burst onto the international scene. Bloomsbury also houses another world-famous institution – The Bartlett at University College London (UCL) – which proudly displays this reputation, describing itself as the university’s ‘global faculty of the built environment’.

From 1971 to 1990, under Chairman, Alvin Boyarsky, the AA established a major international profile through exhibitions, catalogues and publications, while reinforcing its reputation for independent thinking and progressive ideas. Most significantly, a large number of the world’s leading and best-known practitioners have





Left: London 2012 Olympic Park © LLDC
Centre: Crossrail Station, Canary Wharf, Foster and Partners
Right: Heathrow Terminal 5, RSHP © Katsuhisa Kida

not only studied but also taught there, including Zaha Hadid, Ken Yeang, Rem Koolhaas, Bernard Tschumi and Daniel Libeskind. As Mustafa Chehabeddine, Design Principal at KPF in London, who also studied there, says, ‘it gave me exposure to a lot of provocative thinkers ... and opened up new horizons’. In other disciplines, London’s Imperial College, UCL and Brunel University are among the educational establishments consistently rated among the best in the world for their engineering departments – regarded not only as outstanding academic establishments but as the home of innovation through multi-disciplinary applied research and collaborations.

It is not just the breadth of expertise but also the varied cultural perspectives that make an equally important component of London’s vibrancy – ‘the mix of cultural experiences, [the co-location of] industry, government and the arts, people from different backgrounds, the overall nature of London attracting many cultures’ are the ‘ingredients that generate creative spark’, according to

Andrew Summers, former Chief Executive of the Design Council. It is this creative exchange of ideas that is the foundation of innovation, in which London is recognised as a world leader. About one third of both undergraduates and postgraduates studying architecture in London come from outside the UK.¹³ As reiterated in a recent NLA working group, London acts as a magnet for attracting some of the best talent from around the globe: it is this ‘mix of cultures that sets us apart – you can’t buy that in other cities’.¹⁴ These international alumni have not only disseminated a free-thinking design approach around the world, but also provided a vital informal support to London’s global networks through connections back to skills, markets, clients and knowledge at a local level overseas.

In recent years a number of seminal projects within London itself have reinforced and redirected world attention to the skills and expertise of the capital’s built environment professions. Among these are the innovative approaches to regeneration,

masterplanning, design and public realm shown in the 2012 Olympic Park (now the Queen Elizabeth Olympic Park) and at King’s Cross, both of which have transformed brownfield industrial land into vibrant new neighbourhoods and districts for the 21st century. Heathrow’s Terminal 5 and Crossrail demonstrate London’s ability to design, plan and construct mega-infrastructure on a city-wide and regional scale.

Most importantly, these projects have been developed and completed within the context of a London planning framework aiming to support the capital’s future resilience, and so also act as a showcase for good practice in integrating new development and networks into a city renowned worldwide for its built environment heritage. They also demonstrate that the key to successful delivery is a flexible, proactive, collaborative project management approach focused on quality, in contrast to earlier approaches characterised by ‘a world of fixed-price contracts, risk transfer, lowest-cost tendering and adversarial relationships’.¹⁵

1.4 Where do London built environment professionals work in the world?

As Tim Bowder-Ridger, CEO and senior partner, Conran and Partners, observes, ‘British companies have ... become very good at operating across significant time differences and managing their resources effectively across the often complex challenges posed by language and geography.’ Built environment professional services based in London have an exceptionally strong international track record, urban network of clients and peers, and outreach, as evidenced by a survey of the NLA Membership carried out for this insight study. An overall examination of Member profiles shows that these practices and companies have an established presence (a permanent or affiliated office) outside the UK in at least 96 cities around the world, on every continent.¹⁶ Of those survey respondents who had offices outside the UK, 63 per cent had offices in



Europe, 31 per cent in North America and 46 per cent in the Middle East. Just over half (53 per cent) were currently (as of 2017) working on projects outside the UK. In economic terms, revenue from international work generated by the architecture profession alone stands at £474 million in 2016 in the UK, with the vast majority (86 per cent)¹⁷ generated by London-based chartered practices. The Middle East remains the biggest source of this work.¹⁸

As explained earlier, the international diversity of London companies is a particularly marked feature and strength of the industry in the capital: 37 per cent had between a quarter and a half of employees from the EU alone. These employees not only bring specialist skills and expertise to support projects on a practical level, but they also provide other worldviews and perspectives – the value of which cannot be overestimated; ‘cultural loss is a worry’, says Bob Allies, partner, Allies and Morrison, and it is this that is so important to prevent in the uncertainty generated by Brexit. Indeed, a tension between the creative and commercial drivers of the built environment industries has meant that the cultural value of the built environment services is overshadowed by its (admittedly not insignificant) contribution to trade. Missing from the discussion around Brexit, says Sarah Mann, Director of Architecture, Design and Fashion at the British Council, is the role of design from a cultural perspective, and, she argues, we need to be advocating ‘the important role of design and the design profession in representing our culture internationally’.

Above: Sydney Opera House, Arup
© Andy Gardner
Bottom: Halley VI, Hugh Broughton Architects and AECOM
© James Morris

1.5 How do London built environment professionals work internationally?

Permanent and temporary offices abroad are just the smallest visible element of an enormously complex web of informal contacts between architects, developers, engineers, planners, clients and many others, in which London-based professionals often have several decades’ worth of advantage over other global firms. Ove Arup, for example, founded his consulting engineering business in London in 1946, and 30 years later, when the Sydney Opera House was completed, it had offices in Northern Europe, Southern Africa, South-East Asia and Australia. For both large and small companies alike, international growth can often be ad hoc and organic, resulting from a successful series of projects in one or more countries which lead serendipitously to new clients, often through personal connections or recommendations and introductions: Bob Allies quotes the example of a current North American project on which the main collaborating local architect is a former Allies and Morrison staff member. Similarly, Make Architects explain that a small, but important part of the success of their Aranya residential development in Mumbai was owing to ‘the strong cultural ties between Britain and India – including a shared love of cricket between client and architect’.

These extensive professional networks are also facilitated by the huge number of international alumni from London’s educational institutions, and also supported by the global ‘soft power’ leadership of international business, finance and civic leadership, in which London has preeminence. Research by Deloitte in 2016 showed that London’s executive ‘alumni’ ‘have reached an impressive 134 countries, 12 per cent more than New York ... and 24 per cent more than Paris’.¹⁹ Conversely, as one of the world’s major trading centres, London’s international links are reinforced by significant inward global investment, especially in property, infrastructure and construction – ‘For many years I have described London as the BRIC capital of

the world’, explained leading economist Jim O’Neill, referring to how London, and therefore its professional services, have benefited greatly from growth in the eponymous countries of Brazil, Russia, India and China.²⁰ Recent examples include a £425m funding agreement with Thailand’s Charoen Pokphand Group and £1.2 billion invested by four Chinese banks to unlock the redevelopment of the Royal Albert Docks.²¹

Competitions are of course a further route to finding work abroad, and the consultancy formed by Malcolm Reading, architect and former Director of Design at the British Council, has, through its expertise in organising open and invited competitions for UK and international projects, undoubtedly also contributed to the rising global reputation of emerging practitioners. The RIBA has also played a significant role in highlighting British and London architectural design abroad through its competitions scheme – one notable and highly unusual example (won by Hugh Broughton Architects and AECOM) being that for Halley VI, the British Antarctic Survey’s new scientific research station widely hailed as a pioneer of ‘extreme architecture’.

For SMEs and larger practices alike, securing work internationally may be through circumstance or part of a deliberate strategy to diversify a portfolio of projects (and therefore de-risk a business) in an uncertain international climate, or to capitalise on clustered opportunities in the same area. Having seen major changes happening in Los Angeles over the past decade, and being fascinated by its urban and popular culture, Ben Adams, for example, has recently founded an office in that city, while Duggan Morris is also exploring prospects there. There are, however, still many challenges, especially for SMEs, seeking to work abroad: cultural differences; tax issues and different legal systems; and a lack of mutual recognition of qualifications, registered status, and understanding local markets and identifying local partners. The solution, for smaller practices in particular, suggests Peter Oborn, RIBA vice-president international, is ‘to have something to offer – to develop a USP’. He quotes the example, among many others, of AND Architects, whose projects

for temporary sponsorship pavilions at London 2012 and Portuguese language skills helped to secure the commission in Brazil for the 2016 Rio Olympic Games Handball Arena (a temporary structure that will be reassembled as four schools). Another alumnus of London 2012, Asif Khan – who designed the Beatbox pavilion for Coca Cola – went on to create MegaFaces for the Sochi Olympics in 2014.

London and the rest of the UK’s relationship with the world will change in the post-Brexit era, and this insight study explores what the industry and policy-makers are doing, and will need to do, to ensure London’s continued success. It is important to consider how London needs to remain resilient not only economically but also culturally: as Sarah Mann explains, we need to consider the ‘ecosystem of culture – curators, critics, lecturers – all of which make architecture a vibrant industry’. In the current geopolitical climate, London – along with other global cities – faces many significant challenges, but also potential opportunities, to maintain and to reinforce its position as the world’s preeminent design capital, and these will be explored in the following chapters.

Above: Rio 2012 Handball Arena, AND Architects
Bottom: MegaFaces, Sochi Olympics, Asif Khan
© Hufton+Crow





2.1 What are the challenges for global cities today?

'Cities have to develop real solutions, which is why they develop in a different way to nations ... We are the hotspots of the globe.'

Maria Vassilakou, Deputy Mayor of Vienna²²

The rapid rate of urbanisation is now accepted as the defining characteristic of life in the 21st century. By 2050 about 70 per cent of the world's population will be living in cities, with the greatest growth in Africa and Asia where the urban population is likely to increase by 3 and 1.7 times respectively. However, cities around the world are facing enormous challenges: in accommodating expanding populations; changing urban demographics as populations, especially in the West, age; increasingly inequality; rising insecurity; an upsurge in international migration; climate change; and economic resilience. At the same time, cities continue to act as places of inspiration and aspiration, drawing in millions of new inhabitants by offering opportunities for jobs and an improved quality of life – globally cities generate more than 80 per cent of GDP.²³ The report of UN-Habitat III (the United Nations human settlement and sustainable urban development programme) in 2016 neatly summarised the heart of the problem today: 'Cities are operating in economic, social, and cultural ecologies that are radically different from the outmoded urban model of the 20th century.'²⁴

Cities by default are open and inclusive as they are on the frontline of dealing with major issues that demand new solutions in design and planning – adequate and integrated transport and infrastructure, liveability and sustainability, housing, public space, economic resilience and health, among many others. Despite its evident economic and cultural success, London itself faces enormous and urgent challenges, especially in provision of affordable housing, the need to improve poor air quality, the rapid loss of affordable and accessible commercial space, and the constant

upgrades required to an overloaded and creaking transport, utility and ICT infrastructure. At the same time, generational shifts and the power of technology have resulted in major transformations in the way we live and work. As architect Ben Adams observes, the twenty-somethings of Generation Y, born in the 1980s and 1990s, 'don't have the same aspirations as older generations – London is a transitory place for them, for example they will move between Airbnb, living with a friend, living at home ... they use the city in a different way'.

Dramatic shifts are also taking place in governance and the relationship between local, regional and national politics: London as a 'world city' increasingly has more in common with other cities at global level than with the wider UK, especially with the recent emergence of more fractured and polarised political climates around the world at national level. Cities are developing distinctive new identities with the potential for mayors to have much wider influence, as evidenced by the foundation of the Global Parliament of Mayors, inaugurated in late 2016 to give 'cities a voice on the world stage'.²⁵ London is, for example, a member – alongside more than 80 other major cities – of the C40 Cities Climate Leadership network, representing over 600 million people and one quarter of the global economy, which seeks to tackle urban issues related to climate change.

All this means we need radically different models of urban design and planning to the ones that were established a generation ago. As Yolande Barnes, Director of World Research at Savills, explains, this means that 'deploying capital [to invest] in big lumps on big grids that are car-dependent is very much an outdated 20th-century phenomenon'. What is needed for world cities is the 'mixed-use, fine-grained, nuanced' urban character – of which London is an exemplar: 'London's urbanism facilitates its commercial value'. London's attractive urban environment – its measured and diverse urban pattern of public spaces, houses,

workspaces and schools, for example – is, as will be explained below, part of the model that London built environment professionals are successfully exporting and adapting to local conditions around the world. However, London is not an island – practice and policy here are evolving in response to the capital’s function as part of a much wider, interconnected network of dialogue and exchange of ideas at city level, made possible by a more global industry. An established example of this is the ‘NY-LON’ series of seminars created by NLA, bringing together speakers and audiences simultaneously in London and New York to foster cross-city dialogue and learning on areas of common interest such as affordable housing, infrastructure and tall buildings.

2.2 How is London providing solutions to global cities?

‘The brand of global quality in design goes a long way’ to explaining London’s pre-eminence as a world design capital, says Malcolm Smith, Global Masterplanning and Urban Design Leader at Arup. Summarising the views of many industry leaders interviewed for this study, he explains that London is a ‘place where there is a maturity of design learning and practice, where you can access innovation in design, and where there is cross-fertilisation [of ideas] because of the scale’. Within the context of an international-facing culture, London’s renown for built environment excellence is founded on a multi-disciplinary, analytical approach: a combination of deep specialist knowledge with integrated problem-solving and collaboration across construction, engineering, architecture, and related disciplines, as well as high-quality supporting professional and legal services. International clients are also drawn to the conditions that London creates for expertise in sustainability and digital technology; placemaking that understands local demands; a focus on quality, experimentation and originality (and even eccentricity and calculated risk-taking); and, on a practical level,

an ability to deliver within the budget and resources specified. As explained in a recent NLA roundtable discussion, London also has kept its ‘punk’ attitude – designers here often ‘come up with ideas that are non-compliant ... We are good listeners but we also like to challenge.’²⁶ It is the fact that London combines this characteristic approach with established professional standards and educational qualifications, outstanding research excellence, access to talent and expertise from around the world, clear corporate legal and tax systems, and effective regulation and standards that has led to its world leadership in this field.²⁷ As Albert Williamson-Taylor proposes, ‘we cannot match the resources of the US – but we can match the intellect’, plus, with a general approach typified by ‘a very strong empathy’, London-based professionals can ‘make amazing diplomats’. London’s distinctive mix of historic and modern infrastructure and its remarkable heritage means that its civil and structural engineers in particular are highly experienced in developing solutions to extremely complex technical challenges – presented, for example, by Crossrail – and have become world leaders in leading-edge technologies such as digital condition monitoring, cloud technology and 3D modelling. All these skills and technologies are likely to be much in demand as global urbanisation continues.

Methods of working, especially for larger practices, generally involve working with a local partner (sometimes a compulsory requirement) or on collaboration between different offices of the same firm in different locations, and with other firms (sometimes also from London), all of course now facilitated by the increasing sophistication of technology. Kamran Moazami of WSP Parsons Brinckerhoff’s London office says that the firm’s international network of offices and its approach based on peer review, exchange of ideas, and access to experience mean that ‘we learn from each other ... our best input is from WSP around the globe. We bring innovation to other parts of the world’. Similarly, to take just one example, Aukett Swanke’s Arcus III office tower in Moscow was the culmination of an international team effort,



Top: Melbourne
Middle: New York
Bottom: Dubai
© Agnese Sanvito



Left: Town houses, Msheireb, Allies and Morrison et al
Centre: Cooled Conservatories, Gardens by the Bay, Singapore, AtelierTen and Wilkinson Eyre
Right: Abu Dhabi International Airport, KPF and AECOM

with the firm’s London studio generating and directing the design, the Istanbul studio producing setting out and detail drawings, and the Moscow studio coordinating local consultants. Founded on London’s outstanding creative reputation, a project’s design concept and development is often undertaken and supervised by the London studio of a multinational firm. Critically, collaboration with local teams is key to this process. Mustafa Chehabeddine explains that KPF’s established ethos and method of working mean that ‘the partnership with the local architects is established from day one, the design development is usually done here [in London], while at the same time we gradually shift the percentage of responsibility to the local partner so that they develop a sense of ownership of the design’. London teams have also exported ‘knowledge capital’ in other ways by providing design review expertise for clients in places, such as Oman, where this type of experience has been limited.

The accompanying showcase of over 220 international projects by NLA Members shows the great depth and breadth of London-based expertise around

the world, from every type of urban project – from housing, offices, schools and universities, to larger-scale masterplanning and new districts, to major infrastructure. It is possible to identify, however, some specific areas in which London has made and continues to make a particularly notable contribution: urban renewal and city-making; delivering major transport infrastructure; social and cultural resilience and regeneration; and sustainability, technological innovation and retrofitting.

‘A city should be a place where people live because they want to, not because they have to’, says Maria Vassilakou. The new urban agenda for cities focuses on the need to ensure that cities can continue to accommodate diversity and support sustainable growth, that they are flexible, inclusive, pleasant to be in and welcoming, and that they allow spontaneous encounters to stimulate dialogue and the exchange of ideas. In this respect, London has provided very important models in the transformation of its public realm since 2000 and in the development of new urban quarters, especially that initiated in east London by the

2012 Olympic Games. Working every day in a city with such a distinctive street pattern and wealth of historic buildings, London-based architects have translated this into lessons learned in creating new city quarters that will gradually become embedded and woven into wider urban contexts. As Bob Allies describes, ‘the King’s Cross masterplan showed how cities could work’: that a flexible urban framework accommodating a variety of uses at various scales combined with high-quality public realm demonstrates how an urban quarter or new masterplan could be dynamic and evolving, not prescriptive in stipulating ‘x sqm here’. These lessons have been applied to Msheireb, a 35-hectare mixed-use masterplan for the regeneration of the historic heart of Doha, Qatar, with the involvement of several other world-leading London firms. The landscape-led approach to urban renewal which led so successfully to the Queen Elizabeth Olympic Park has also importantly informed other large-scale projects such as Madinat al Irfan, Muscat’s urban extension in Oman.

Delivering infrastructure with the capacity to support and expand connectivity and growth is also a vital

requirement for future urban resilience and connectivity. London-based firms have acquired a strong reputation for providing these solutions around the world, building on the experience of once-in-a-generation projects such as Crossrail. Fundamental to this is London’s creative and analytical approach and, essentially, integrated thinking and practice across project management and related disciplines. As Mike McNicholas of Atkins explains, the advantage to the client is offering a complete package ‘surrounding them with all the disciplines they’d ever want’ – not just architecture and urban design but much more specialist expertise such as lighting and marine biology – which ‘makes it easier for the customer to get everything they want from one trusted supplier’. In this way, major transport projects in the Middle East such as Jeddah Airport, the Dubai Metro and Doha Goldline have been delivered, alongside colleagues across the UK and the globe, from the company’s London office in Euston Tower.

While London firms have established an enviable global reputation for expertise in masterplanning and urban infrastructure projects, perhaps better-known worldwide



MAAT Lisbon, AL_A © Piet Niemann

are the signature and iconic individual buildings that London architects have designed for cities around the world. British built environment professionals have exceptional experience in developing and delivering iconic landmark projects that support the social and cultural resilience and regeneration of cities, and have become expert in regeneration-led projects that help to redefine a city’s global profile. This tradition stretches back to the modernist schools of the former British

colonies, through to the Centre Pompidou in Paris and latterly to such symbolically powerful projects as the Heydar Aliyev Center in Baku, Azerbaijan, by Zaha Hadid Architects. Designed to house cultural programmes, the building has a striking, flowing, wave-shaped form deliberately conceived to contrast with the monumental Soviet-era of the Azeri capital and, according to the architects, the ‘optimism of a nation that looks to the future’. Most recently the Museum of

Art, Architecture and Technology (MAAT) in Lisbon by AL_A was designed not just as a cultural project, but primarily an urban one that linked the Lisbon waterfront to the city, from which it was previously cut off by a railway and motorway, with a roof that has become a new public space for views over the city and cultural events. Such projects make use of London’s skills in developing sophisticated technologies for design development – the continuous surface of Heydar Aliyev

and its characteristic ‘parametric’ form could only be achieved using advanced computing and technical systems – as well as materials research (MAAT’s facade is covered with 15,000 3D tiles). The ability to develop and incorporate pioneering technologies, especially those that support optimal environmental performance and digital construction techniques such as 3D printed components, is also a hallmark of London projects and especially the work of its leading engineering practices.

LONDON'S GLOBAL CHALLENGES AND OPPORTUNITIES



3.1 Challenges

'Our city and our country will continue to be the best place in the world to do business. And we will continue to look outwards and trade and engage with the entire world.'

Sadiq Khan, Mayor of London, 24 June 2016

London's position in a fast-moving world is a strong one, but there is no doubt that its relationship to countries on the other side of the Channel will change as a result of the UK's decision to leave the European Union ('Brexit') in 2016 – a referendum in which, it must be reiterated, London voted 60 per cent in favour of remaining in the EU. The UK government's statement on '12 steps to Brexit', which included leaving the single market (in favour of negotiating a new free trade agreement), raised immediate and ongoing concerns from across the industry about potential impacts on freedom of movement, access to skills, research in innovation, restriction of the talent pool, trade barriers, maintenance of common product standards, and rising costs, especially given the complexity of the supply chain. Yet, Europe is just one of London's many worldwide connections: as noted above, London-based firms have long-standing links to every other part of the world, and there is some optimism about the possibility, for example, of new trade agreements beyond the EU that may open up opportunities in previously restricted markets, as well as London's ability to capitalise on its existing connections. As Savills reported in late February 2017, '...markets in central London have started to accept that Brexit is more of a process than an event [which] has resulted in a cautious return of confidence, combined with the acceptance that decision-making has to continue'.²⁸

Given continuing uncertainty about the long-term status of EU nationals in the UK post-Brexit (despite avowed protection for EU citizens already living and working here), the potential loss of skills and talent contributed by EU nationals (of which there are 1million in London)²⁹

in particular is perceived as the biggest concern in the NLA Member *London: Design Capital* Survey, with 45 per cent responding 'essential' and 42 per cent responding 'important' to the question 'How important in the future do you see being able to recruit and retain staff from the European Union?'

The need for new skills is not an issue just defined by Brexit. Stricter UK government visa requirements have made it more difficult to recruit from outside the EU in recent years. There are already pressing skills shortages especially in construction and all sectors of engineering: in construction an estimated 200,000 workers are needed to meet the demand over the next 10 years,³⁰ while civil, mechanical, electrical and IT systems are just four of the many engineering disciplines listed in the UK government's official 'shortage occupation list'.³¹ In a report to the London Assembly Economy Committee, CITB-Construction Skills has previously highlighted specific shortages of glaziers, plasterers, dry-liners and building envelope specialists, with one of the problems being that in manual trades – in contrast to other occupations such as architecture – there is often no Continuing Professional Development (CPD) so workers are not supported to develop new skills during their career.³² In both construction and engineering, apprenticeships may provide one solution but, it has been argued, training must be long-term, highlighting a 'clear pipeline of opportunity and earning potential', rather than being short-term and project-based.³³

The London Chamber of Commerce and Industry (LCCI) has recommended that the Mayor and UK government should take such steps to designate London as a 'Targeted Migration Area' within the UK immigration system to manage the capital's need for skills and labour; maintaining a separate 'Shortage Occupation List for London' (as Scotland has) to attract the skills and talent necessary; and exploring potential for a dedicated 'Capital Work Permits system' to provide controlled access for future migrant workers and meet London employers' need for skilled labour.³⁴

Not least of London’s other challenges is, as Jolyon Brewis of Grimshaw suggests, the ‘ability to attract best talent from wherever it might come’ in the face of a lack of affordable housing and the increasing cost of living, especially for younger professionals. In late 2016 the average cost of a home in the capital was 14.2 times average earnings, more than twice that of the UK average.³⁵ Increases in supply are therefore urgent and essential if London is to remain as an attractive place for younger professionals to stay here in the long term so that they can build up experience, as it ‘takes a long time

to train somebody to become a leader’, argues Mustafa Chehabeddine of KPF – however, as evidenced above, the delivery of this supply is impacted by the unfurling skills shortage. London may face challenges from other cities in the UK such as Manchester and Bristol, as well as cities overseas, that have a much lower relative cost of living and working. Maintaining world class infrastructure and connectivity to do business, including broadband as well as transport (especially London airport capacity for international travel), is equally as important as flexible and affordable office space and residential accommodation.

Industry Views: Challenges presented by Brexit

Any restrictions to professional skills which exceed those that currently exist is a barrier to commerce, affecting UK prosperity and sector strength.’
Victoria Naysmith, PRP

‘... Different education standards and focus in EU mean a broad range of specialisms for a UK-based employer seeking to build a comprehensive team skillset. UK-only skills limit breadth or results in wage inflation. ... Potential levies on former EU imports [could mean] high performance building products are no longer viable; time lag for UK manufacturing R&D and supply chain to catch up; impact on quality of building performance, longevity and aesthetic. ... While foreign ownership of UK and London property is far from perfect in its effect on the economy as a whole, it has tangible benefits to the construction industry and has occasionally been the stimulus required to unlock significant regeneration which benefits London as a whole.’

Roger Meyer, Patel Taylor

‘London currently attracts a huge amount of individual talent from all over the world and especially Europe, which makes it one of the most exciting cities to work in the world. It is vitally important to keep this diversity of world class professionals which in turn raise the standards of local talent.’

Rupert Calvert, Darling Associates

‘The future of ... work is digital: without being able to recruit digital natives to carry out these roles, London will lose its pre-eminence in the tech sector and the economy will suffer.’

James Pellatt, Great Portland Estates

‘The greater concern comes from the retrenchment of conservative governments placing restrictions on the movement of people and the potential impact this may have on exchange of professional skills and research.’

Edward Garrett, Brunel Professions

‘Currently there is a shortage of quality graduate landscape architects in the UK. This gap has been increasingly filled by EU citizens, and a few non-EU nationals, although the latter is not an easy process. If the long and complicated process of employing staff increases from everywhere outside the UK this could be potentially catastrophic for our business.’

Victoria Williams-Ellis, Townshend Landscape Architects

‘Access to professional skills from the EU and beyond are essential to the running of our practice (over 40 per cent of staff). Access to these skills, plus those of construction workers, other consultants etc. across the profession are essential to the construction industry.’

Alex Gordon, Jestico + Whiles

‘As we do not have a high percentage of architects from the EU it should be possible to adapt if Brexit leads to restrictions on free movement. However, we are seriously concerned about (a) the lack of clarification about the status of our current EU employees and (b) the enormous damage that has been done to the UK’s reputation. There is no doubt that people from abroad now feel unwelcome and insecure. The long-term damage to the creative industries in general is hard to overstate.’

Rab Bennetts, Bennetts Associates

‘As a company we have had many staff from Europe, not as a deliberate policy, simply because they were the most suitable candidate. We will lose access to European professionals. We generally specify products with a global supply chain – we suspect that these will be affected by our changed relations with Europe.’

Ann Lakshmanan, Shepherd Epstein Hunter

‘It is very difficult to see how construction sites would operate without access to the European staff who make up a majority of workers on many sites and bring key skills which are critical to certain trades. Brexit has already impacted in investor confidence and led to postponement of some projects: we envisage this impact on the industry workload increasing as Brexit uncertainty increases.’

Gavin Henderson, Stanton Williams

‘Separating from the EU will mean non-standard agreements for all services and goods which is an obstacle to business.’

Richard Hywel Evans, Studio RHE

‘I’m European. Since the vote all prices of building materials have gone up with the devaluation of the pound.’

Catja de Haas

‘It may be more difficult and less cost effective to specify and procure products from the EU when we are outside it. Clients might invest and develop new built environments in other European countries rather than the UK. The European market may be more expensive and more difficult to access for products we might usually specify in the UK.’

Victoria Williams-Ellis, Townshend Landscape Architects

‘With the sudden absence of harmonised European norms and standards coupled with a radically weakened economy, there will be tremendous pressure to ‘relax’ quality and safety standards to stimulate growth. There is likely to be an almighty rush to the bottom.’

John Gray, HTA Design LLP

3.2 Opportunities

Cities are the engines of the world’s economy, with new technologies and the rise of ‘smart cities’ changing how we plan, design, build and manage urban environments more rapidly than ever before. This means that there are likely to be many more emerging opportunities – some perhaps we cannot yet anticipate – for London’s professionals to apply their talents and skills. Many in fact regard the current political situation as a catalyst for action, to extend their outlook in different directions, and, especially for SMEs, to find a wider range of work

in different cities around the world: the NLA Member Survey shows that at least 53 per cent of respondents are currently working on projects outside the UK. As Raphael Channer, advisor for London at the Department for International Trade (DIT), explained, the world has changed and ‘we need to look at the bigger picture’. This is evidenced by the marked increase he has seen in recent applications from London SME firms to join trade missions organised by the DIT, especially to the Middle East and Asia.

A report published in late 2015 forecast the volume of construction output growing by 85 per cent to \$15.5 trillion worldwide by 2030, with three countries – China, the USA and India – accounting for 57 per cent of all global growth, and with India growing at a rate almost twice that of China as its urban population is expected to surge to 165 million in the same timeframe.³⁶ This suggests that London’s biggest opportunities for new international projects will lie in these markets. One developer at a recent RIBA Journal seminar stated that London will continue to be an attractive safe haven, as, critically, the UK controls its own currency and has never been part of the Eurozone – outside Europe, the Chinese ‘think long term’ and ‘Brexit is not a big deal for them’.³⁷ In inward investment, there is a marked tendency to diversifying portfolios more to assets that directly generate revenue – notably retail, sport and leisure facilities and especially hotels, which may create more opportunities overseas as well as at home.

Established companies are also focusing efforts on winning work and sustaining connections in North America, China, India, South-East Asia, the Gulf States and Australia, and, increasingly, Africa. As shown in Chapter 2, there is a rich and varied history of London built environment professional services being procured and applied in many cities around the world, stretching back several decades and meaning that London and the UK have built up a world-beating reputation for quality, innovative thinking and design, and delivery. There are mixed views on the Commonwealth – some industry leaders view it as an important grouping, while others are less convinced that from an economic perspective it is relevant to UK trade and will make a difference to the UK’s global economic performance.

With the increasing sophistication of digital technologies especially, there may be new avenues to explore to doing business, bypassing the established institutional routes that can be impeded by political and other artificial boundaries. As the British Council’s Sarah Mann points out, meaningful digital collaboration and more open-source design are in effect still ‘unexplored territories with huge implications for working across

borders’: concepts such as the WikiHouse, an open-source project for designing and building houses initiated by London professionals in 2011, are showing the way. At a project-delivery level, we should explore the question ‘how can future technology be a resilience measure for Brexit?’, argues Atkins’ Mike McNicholas. Project management skills now also require an extensive understanding of digital applications, especially with the growing impact of building information modelling (BIM) and smart infrastructure systems and offsite, automated and 3D fabrication. Continued development of digital skills supported by the growth of the tech sector – there are over 23,000 ICT and software companies based in London, the highest of any European city³⁸ – will therefore be critical to London’s future success. London already has world-leading digital capabilities and the use of common standards and data language can continue to support effective collaboration (subject, of course, to improvements in city-wide broadband access); the same also applies to London’s position as a world leader in sustainable design and technology. Upskilling in digital engineering to combine knowledge of systems, method and value, with estimation of benefits and risk in project management, has been suggested as one route to creating more multifaceted capabilities among quantity surveyors and project managers.³⁹ Blockchain technology – a distributed, decentralised system (ledger) for managing and recording transactions in bitcoin or another cryptocurrency – may also have the potential for providing greater assurance on land ownership (and therefore confidence to investors) in emerging cities and markets in many parts of Africa, where legal title is often extremely difficult to establish. As the RIBA points out, there could then be even more opportunities for London professionals to apply skills in masterplanning and urban design, including innovative and environmentally-friendly design that can help integrate large-scale infrastructure development in developing countries.

Industry Views: Opportunities presented by Brexit

‘On a positive [note] I feel it is also an exciting time for foreign investment within the UK, as Brexit will open up opportunities which may have been previously restricted. This will surely be grasped by countries further afield than the EU and create healthy competition and investment.’

Rupert Calvert, Darling Associates

‘Fundamentally, trade of goods is likely to persist as at a micro level individual businesses are likely to find ways to continue trading with partners around the world, helped by the proliferation of technologically supported exchanges which will supersede international institutional frameworks.’

Edward Garrett, Brunel Professions Ltd

‘Still uncertain times, but London should be able to continue as is. International companies still want to be based in London.’

Tom Leathart, City of London

‘[The] end of the OJEU process without a competent replacement structure could provide potential benefits to ‘traditional’ networking and innovation: design-based job-winning. (Alternatively this could damage the reputation of the industry if the checks and balances of OJEU qualification are abandoned and projects run into programme / cost / technical difficulties due to the inexperience of consultants and contractors.) ... With the right training and support, UK originating professionals, manufacturers and trade specialists can equal and exceed the qualities we currently expect from the EU, providing employment and ultimately export opportunities.’

Roger Meyer, Patel Taylor

‘The reality is that there will be new trade agreements in the future drawing on a long and established trading history which will continue to give UK architects a significant presence in overseas markets. Many British brands have already amassed huge amounts of global equity and the UK’s departure from the EU will not

change that. Investors are attracted to the enduring value inherent in quality and innovation and these are factors which are constant irrespective of the UK being outside the EU. The UK has developed an exceptional reputation for being one of the foremost nurturers of artistic and creative talent over many decades and this unique cultural environment is one that is clearly recognised by many overseas clients when making decisions about which companies they should work with.’

Tim Bowder-Ridger, Conran and Partners

‘Brexit can be seen as an opportunity to place more emphasis on home grown training; the design community should encourage the government in this regard. It also needs to join up with other industry bodies such as Build UK, BPF and BCO to talk with one voice. It is too easy for the government to criticise by saying that we don’t speak with one voice.’

James Pellatt, Great Portland Estates

‘It is now up to us as business leaders, designers, artists, manufacturers to produce the goods and services which the rest of the world, including Europe, want. And it is here that the Government can (and should) help and assist. The UKTI has been extremely helpful to our business in the past, helping us secure connections and commissions in Malaysia, Singapore, the Middle East and Australia, and we hope that this will continue to be the case. We need to redouble our efforts to remain creative and competitive. ...’

Chris Williamson, Weston Williamson + Partners

‘Everything ... is an opportunity, manufacturing offsite manufacture industrialisation all offer great opportunities and those products and skills are readily sold abroad.’

John Spence, clafordseaden LLP

‘Brexit serves to focus the mind on export to the world rather than to be satisfied with Europe.’

Glan Blake Thomas, Advanced Ergonomic Technologies Ltd



LONDON'S GLOBAL FUTURE

Recommendations to ensure London's global future

To maintain its global preeminence, London's future is dependent on investment in and development of skills, in continually reinforcing its reputation worldwide, and – ultimately – in ensuring that it continues to attract people from all over the world. Across the built environment sector there have been calls, variously, for continued investment in education and retention of student exchange programmes; simplified regulations to protect supply chains; and, most importantly, a flexible immigration system that guarantees the right to remain for EU nationals working here, while also examining the potential for a specific work permit system to help meet London's need for skilled workers from around the world. Alongside this is the demand to ensure London's resilience through continued investment in infrastructure, effective masterplanning, housebuilding and land assembly to provide the right conditions for growth, as well as calls for the UK government to devolve more powers to the Mayor and provide a national strategy for exports across departments (rather than just the DIT), and to better reinforce both the economic and cultural significance of London's built environment expertise.

Almost all the industry leaders interviewed for this study agreed that London would retain its position (above or alongside that of New York) as the world's premier global city. London is a city that is continuing to develop and adapt, and it is this constant evolution that is so critical to its future resilience: 'Venice is a jewellery box', says Ben Adams, 'but London must not stop change'. London's industries have a significant advantage in that they have always been able to assimilate and accommodate new ideas and thinking. There is much that London can learn from other cities – including more diverse mechanisms of delivery, genuine mixed-use districts, new typologies

of tall buildings that accommodate a variety of uses to become 'vertical cities', and a growing interest in integrating the lessons learnt from the street-based informal economies of Africa and Asia. At the same time, as the economies and cities of the Middle East, China and India continue to mature and grow, there may be many more openings for applying skills in retrofitting and adapting buildings and places for the new global conditions of the mid to late 21st century and beyond. London's built environment professionals have built an enviable reputation based on many decades of experience, refining a questioning, analytical and problem-solving – but also innovative, adaptable, collaborative and often surprising – approach that brings this expertise to finding the best solutions to suit local urban conditions. It is the resilience of this unique attribute that will help to ensure the ongoing success of London's built environment industries and professions on the international stage.

The NLA has four recommendations for the Mayor and Government to support London's built environment industries and their international profile:

- Continue to attract and retain access to talent
- Recognise and promote London's built environment expertise to the export market
- Make London an attractive and affordable place to live and work in the long term
- Create and reinforce links with other cities and provide a better voice for the profession.

Continue to attract and retain access to talent

The Mayor's campaign #londonisopen, launched in July 2016 after the EU referendum, sought to 'show that London is united and open for business and to the

world’. However, the Mayor and national government must also push for freedom of movement, free trade, and visas for both EU citizens and other non-UK nationals to support the capital’s global preeminence. This applies not just to professionals in practice, especially where skills are in demand, but also to international students, who are vital in bringing new ideas and viewpoints, and to supporting innovation and research; guaranteeing exchange programmes stay in place would be an essential measure. Similarly, mutual recognition of professional qualifications must be maintained.

Recognise and promote London’s built environment expertise to the export market

Amanda Leveté has remarked upon the consistent political support her practice’s Museum of Art, Architecture and Technology in Lisbon received, noting how at its opening she shared a platform with (among others) the President and Prime Minister of Portugal, and the Mayor of Lisbon – but that ‘we don’t have that support here’.⁴⁰ The Mayor needs to advocate more strongly for London’s built environment industries overseas as one entity, highlighting its unique mix and depth of expertise that can be applied in infinite ways to local issues and problems in cities around the world. This includes continuing to demonstrate the size and importance of design and construction to London’s constantly evolving economy and culture. The national government should also press for continued inward investment and provide more avenues for the industry to build and reinforce its links abroad through trade showcases, trade missions and similar initiatives, as well as, for example, a London city-wide expo, as called for in the NLA Big Debate in January 2017, which would showcase good design to people in their own neighbourhoods.

Make London an attractive and affordable place to live and work in the long term

To some extent, London has been a victim of its own remarkable success: as its population continues to boom, there is ever-growing pressure on housing and workspace and on transport infrastructure in particular. Alongside investment in infrastructure upgrades, the Mayor must provide, protect and increase the supply of high-quality affordable and accessible residential and commercial space in London, especially as such space is critical for SME practices in the built environment sector. In addition, new ways, such as the use of digital systems, must be found to make planning decisions more quickly and more efficiently. The next critical step will be to explore how ‘the new London beyond the edge’⁴¹ – where the Mayor does not have political influence but must find new constructive solutions – can accommodate the capital’s growth and ensure it remains competitive.

Create and reinforce links with other cities and provide a better voice for the profession

World cities have more in common with each other than with national governments, at which they are increasingly at odds politically. City mayors therefore now have a vital opportunity to establish and reinforce common links. As Maria Vassilakou argued recently, ‘Mayors could save Europe – but they have to realise that they can and they would have to decide to take the lead’.⁴² London has an enviable position as a global leader and with its cultural diversity has a ‘local knowledge of the world’⁴³ but can still learn much from other cities, especially those in Europe that have an equally long heritage, so the Mayor needs to be more proactive in finding common cause with other mayors – and indeed in establishing constructive dialogue with the UK government. At the same time part of this dialogue must be to continue to lobby hard for the interest of the capital’s built environment professions.

Views from the industry

‘In the short term, maintaining status quo access to professional skills and procurement is vital for the stability and success of London’s construction industry. In the longer term, supporting the upskilling of London and UK construction across the industry will fend off a potential decline. This could start with an industry audit of what skills, specialisms and technologies the industry stands to lose access to in the event of a “no deal Brexit.”

Roger Meyer, Patel Taylor

‘Lobby government to ensure that freedom of movement for professionals and workers is maintained and that European regulations continue to be mirrored in UK legislation. Failing success in the above, London should negotiate a separate arrangement which maintains freedom of movement to support the capital’s global status.’

Gavin Henderson, Stanton Williams

‘Prioritise the development of accessibility to professional training in London for as wide a demographic as possible in the longer term whilst in the shorter term ensuring that the inbound flow of skills is encouraged as far as possible.’

Edward Garrett, Brunel Professions Ltd

‘Much of London relies on financial services and so it is vital that trade is not restricted more than it is now. The Mayor should look further afield than Europe to India, China, Americas, Middle East, Far East and Australasia.’

Tom Leathart, City of London

‘Continue to assert London’s openness and inclusive outlook: resist the inevitable negatives of Brexit as they emerge.’

Jonathan McDowell, Matter Architecture

‘A sustainable city is a competitive place.’

Malcolm Smith, Arup

‘There needs to be a renewed vigour about ‘Buy British’. ... We just need to keep marketing the brands in a comprehensive way. Generally I think we are too gentle. The Mayor needs to add more sizzle.’

Glan Blake Thomas, Advanced Ergonomic Technologies Ltd

‘Project London design professionals’ image as a place with unique skill sets and standards.’

Victoria Williams-Ellis, Townshend Landscape Architects

‘The best way the Mayor of London can protect and support the city’s built environment industries is to focus on ensuring it continues to progress with critical infrastructure projects such as Crossrail 2 and Heathrow’s third runway, as well as general housing supply to ensure the city remains one of the most liveable and best connected in the world.’

Alun Thorne, Broadway Malyan

‘The Mayor needs to ensure that London remains one of the world’s most vibrant creative hubs and continues to attract a continuous stream of designers. To do this he needs to ensure that the fundamentals are in place to ensure that they stay – with the biggest priority being an abundant supply of well-designed and realistically-priced accommodation.’

Tim Bowder-Ridger, CEO and senior partner, Conran and Partners

‘... If London’s position is not properly recognised it could lead to the creative industries finding a more conducive home in Berlin or other European cities. Sadiq Khan could also help through his ambitious housing programme, as young designers find it impossible to get reasonably priced accommodation in London. Those with young families are already leaving ... to find somewhere to bring up their kids.’

Rab Bennetts, Bennetts Associates

‘Ironically, it’s the big stuff such as affordability of housing, investment in infrastructure, Heathrow and political stability which will protect London. Whilst it seems appropriate to fend off the impacts of Frankfurt and Paris, the devolution policies for the north are a significant risk that London needs to watch. Sort the infrastructure and housing, and London’s workforce can compete at the global (not European) level. Keep regulation and markets responsive to business, and London’s heritage, culture and character will do the rest.’

Polly Plunket-Checkemian, Broadgate Estates

‘He should try to establish unity with other mayors from both the UK and other countries to create a bond between citizens.’

Brian Johnson, Johnson Naylor

‘Promote relationships with other major cities.’

**Victoria Williams-Ellis,
Townshend Landscape Architects**

‘We believe that he is doing and saying the right things now. He needs help and support from Central Government.’

Phil Hardie, Langham Estate Management Ltd

‘Engage with the profession – see us as part of the solution and not part of the problem.’

Jonny Popper, London Communications Agency



NLA Member Survey

This Insight Study was informed by a survey of the built environment businesses that make up the NLA membership – a diverse cross-section of 500 practices and organisations of a variety of scales across architecture, engineering, construction, property, investment, professional services and the public sector. Below are some of the key findings.

Where are London practices working?

London firms are delivering projects in **over 65 countries around the world**.

78% are working on European projects – the largest location for London practices’ overseas work, followed by the Middle East **55%**, East Asia **31%**, Central Asia and Russia **30%** and North America **28%**.

Outside the UK, Europe is seen as the biggest area for future projects and investments, with **63%** of respondents seeking prospective work. The Middle East is considered the next most important area for future work with **41%**, followed by North America **32%**, East Asia **30%** and Australasia **25%**.

Over two thirds have headquarters located in London.

35% have offices outside of the UK.

60% have offices in Europe, followed by **45%** in the Middle East, **39%** in East Asia, and **35%** in North America.

Future access to professional skills

86% are very concerned or concerned about the impact of any restriction for built environment professionals from Europe as part of the UK government’s final Brexit deal.

88% of the NLA membership said it was essential or important to recruit and retain staff from the EU, whilst **80%** said it was essential for staff outside of the EU.

37% of companies surveyed estimate up to a half of their workforce are European nationals, while **11%** estimate over half their workforce are European nationals.

In comparison, **12%** of companies surveyed estimate up to a half of their workforce are nationals of other countries outside Europe, and only **1%** estimate over half their workforce are nationals of other countries outside Europe.



AFRICA

AFRICA

London's built environment teams have a long tradition of working in Africa and, as seen especially in the postwar era, of adapting modernist buildings to suit local conditions. Against the background of booming urbanisation, their successors often produce solutions exploring traditional materials and methods and sensitive responses to the urban context, combined with innovative and cutting-edge technologies and designs that respond to economic and environmental challenges, as well as massive population growth.



Plano Director Geral Metropolitano de Luanda Luanda, Angola

Accommodating population growth from 6.5 million to 12.9 million people, the 2030 compact city plan extends the urban grid with transit-oriented development corridors linking key economic hubs, with regeneration plans creating 1.4 million new homes and 5.8 million new jobs. The London team lead an international consultancy team, reviewing 20,000 documents, and engaging in over 400 meetings and stakeholder presentations to assess options to gain approval for the masterplan.

Address: Luanda, Angola

Status: Under construction, due to complete 2032

Size: 5,300,000 m²

Type: Masterplan

Client: Governo Provincial de Luanda **Architect:** Broadway Malyan **Local Partner & Project Manager:** Urbinveste

Economic Strategy: Deloitte **Transport Planner:** MiC

Engineer: Aurecon **Social and Environmental Advisor:** UNL (Nova University of Lisbon)



Deux Plateaux Masterplan Abidjan, Cote d’Ivoire

Creating the first Sustainable LEED Platinum residential development in Cote d’Ivoire, this development comprises different types of accommodation for different family situations, including 36 apartments, 24 houses and 8 villas, as well as common facilities for the residents. The London team was challenged in converting BREEAM standards into LEED certification, a system not commonly used in the UK. The construction materials were all sourced locally, and the material specifications and qualities were tested on a case by case basis.

Address: Lemanian, Deux Plateau, Abidjan, Cote d’Ivoire
Status: Under construction, due to complete 2019
Size: 20,000 m²
Type: Masterplan

Client: SCI Ci **Architect:** DOS Architects **Structural & MEP Engineer:** ECG



Mall of Egypt Giza Governorate, Cairo, Egypt

Offering a mix of activities connected by a series of indoor and outdoor public spaces responding to the region’s climate and lifestyle, this two-level centre includes a hypermarket, flagship retail, a range of dining options, and entertainment venues including a cinema complex and indoor snow park. The design is divided into three themed zones. The team’s international retail experience was influential in the client wanting the London office to take a lead role in the project.

Address: Giza- Al Wahat Al Baharia, Giza Governorate, Cairo, Egypt
Status: Completed, March 2017
Size: 135,000 m²
Type: Retail

Client: MAF MISR **Architect:** CallisonRTKL London **Structural & MEP Engineer:** WSP



Villaggio Vista Accra, Ghana

A new housing prototype for Ghana’s emerging middle-class, this scheme provides four buildings, ranging from 7 to 30 storeys, each with a boldly patterned skin inspired by African Kente weavings, around a central leafy landscape. The challenge of building tall towers in an equatorial, earthquake-risk location was overcome by the experience of the London team in designing tall buildings. Careful analysis of how the tower meets the ground and an elegant but pragmatic approach to the articulation of the facade were also crucial.

Address: North Airport Road, Accra, Ghana
Status: Completed, 2016
Size: 58,000 m²
Type: Residential

Client: Metropolis Developments **Architect:** Allford Hall Monaghan Morris **Landscape Architect:** D.I.R.T. Studios
Developer and Main Contractor: Trasacco Estates Development Company Ltd. **Structural Engineer:** Adams Kara Taylor **Services Engineer:** Halcrow Yolles



Alburouj Park Cairo, Egypt

Drawing on experience in delivering commercially-led proposals for an international market and from London projects such as Southbank Place, this new cultural and business community comprises 13 office buildings and a series of animated public spaces. Responding to the unique heritage and context of the site whilst also working within constraints of national planning guidelines, this London-led project creates an architecture which is culturally as well as physically rooted in the specific location.

Address: Alburouj Park, Ismailia Road, Cairo, Egypt
Status: Design stage
Size: 103,000,000 m²
Type: Mixed-use

Masterplanner and Architect: Squire and Partners





Radisson Red Hotel Accra, Ghana

This mixed-use project, located in the bustling Osu district in Accra, consists of a new office block combined with a 150-room hotel, featuring an expressive facade generating shadows and an ever-changing appearance to the building throughout the day. Bringing experience in facade design and analysis of data using specialist software, the London team designed the faceted facade to respond to the local solar exposure and rain fall conditions.

Address: Accra, Ghana
Status: Under construction, due to complete 2019
Size: 21,450 m²
Type: Hotel and Office

Client: Yeshi Group **Architect:** DOS Architects **Structural & MEP Engineer:** ECG

Britam Tower Nairobi, Kenya

At 31 storeys high, this office building is the third tallest in Africa. It is designed to incorporate passive solutions such as renewable energy from wind turbines, intelligent lighting controls, bore hole, water conservation measures, rainwater harvesting and water recycling. Detailed analysis of the local climate and existing site conditions carried out by the London team was crucial in achieving environmental objectives without compromising the aesthetic.

Address: Hospital Road, Upper Hill, Nairobi, Kenya
Status: Under construction, due to complete 2017
Size: 31,500 m² and 38,800 m² car park
Type: Workspace

Client: Britam Tower LLP **Design Architect:** GAPP Architects and Urban Designers **Local Architect:** Triad Architects **Civil & Structural Engineer:** Howard Humphreys East Africa Ltd **MEP, Environmental, Fire & Specialist Lighting Design Consultant:** Chapman BDSP **Local MEP Consultant:** Maiteri & Associates **Project Manager:** Britam **Cost Consultant:** Barker and Barton **Main Contractor:** Laxmanbhai Construction Ltd



Sacred Heart Cathedral of Kericho, Kenya

Creating a sacred place for a congregation of 1,500, this design fuses references of African and ecclesiastical history. The simple palette of natural materials honours the character of this rural African community. Drawing on experience in designing cultural and heritage projects in London, such as the Grade II* listed Roundhouse in Camden, and elsewhere, this project demonstrates attention to the local context.

Address: 20200 Kericho, Kenya
Status: Completed, December 2015
Size: 2,800 m²
Type: Cultural

Client: Diocese of Kericho **Architect:** John McAslan + Partners **Executive Architect:** Triad Architects Ltd **Contractor:** Esteel Construction Ltd **Multi-disciplinary Engineer:** Arup **Structural Engineer:** Eng Plan **Electrical & Mechanical Engineer:** EAMS **Quantity Surveyor:** Barker and Barton **Furniture & Entrance Doors:** Studio Propilis **Stained Glass and Artwork:** John Clark, Glasspainter



Two Rivers REL Nairobi, Kenya

With sustainability at the forefront, this mixed-use development includes the largest shopping facility in east and central Africa. The design allocates 30% of the total area to green areas, and incorporates four bore holes, recycling of 80% of the water used. Using new technologies in parametric modelling and simulation, the London team provided extensive environmental analysis and fire safety strategies.

Address: Two Rivers Mall, Nairobi, Kenya
Status: Completed, February 2017
Size: 87,000 m²
Type: Masterplan

Client: Centum Investments **Architect:** Boogertman + Partners **Civil Engineer:** Gath Consulting Engineers
Structural Engineer: Howard Humphreys East Africa
MEP, Environmental, Fire & Specialist Lighting Design Consultant: ChapmanBDSP **Local MEP Consultant:** Maiteri & Associates **Project Manager:** Athena Properties Ltd **Cost Consultant:** IntegratedYMR Partnership **Main Contractor:** China National Aero-Technology International Engineering Corporation (CATIC)



Richard Feilden Clinic, Mzuzu University Mzuzu, Malawi

Adding a new Treatment Centre for the Mzuzu University campus, providing new examination and treatment rooms for students and university staff, this is Phase 2 of a scheme designed in 2005. The London team provided an environmentally sensitive approach to reduce the use of hardwoods and cement which is both expensive and unsustainable. They developed a prototype assembly construction system that is quick and efficient to erect and can be adopted by the university.

Address: Mzuzu, Malawi
Status: Completed, April 2015
Size: 70 m²
Type: Education and Health

Client: Mzuzu University **Architect:** Feilden Clegg Bradley Studios
Structural Engineer: Buro Happold **M&E Design:** Max Fordham

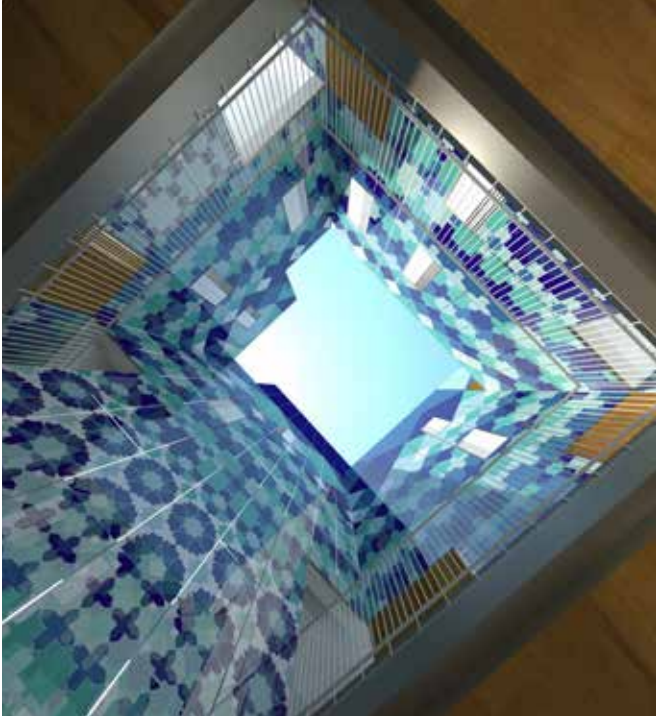


Place Lalla Yeddouna Fez, Morocco

Sited in the UNESCO world heritage site in the heart of Medina of Fez, this scheme reconnects Place Lalla Yeddouna to the riverfront through a pedestrian route across the river, introducing a series of colourfully tiled courtyards into the Medina’s passageways. Focusing on public space and engaging with the artisan community, the design maximises the use of traditional techniques and construction, whilst incorporating technological innovations.

Address: Fez, Morocco
Status: Under construction, due to complete 2017
Size: 7,400 m²
Type: Mixed-use

Client: The Government of The Kingdom of Morocco **Funding:** Millennium Challenge Corporation **Architect:** Mossessian Architecture **Local Architect:** YKS **Art Programme:** Michael Pinsky **Structural Design:** AKT II **Design Mep:** Atelier Ten **Engineer:** Groupe Betom



Dar Essalam Rabat, Morocco

Proposed as a journey across four interlinked spaces, this new commercial hub in a high-end residential development has been designed as a contemporary reinterpretation of vernacular elements. It houses boutiques, cafés, civic amenities, supermarket, restaurants, an art gallery and a theatre. The London-led design envisioned the buildings as a response to the traditional use of public open spaces and squares in Rabat.

Address: Domain Dar Essalam, Rabat, Morocco
Status: Design stage
Size: 32,375 m²
Type: Masterplan

Client: Immoptima **Architect:** PDP London





Rabat Masterplan ***Rabat, Morocco***

This masterplan for the regeneration of Rabat city centre considers the future sustainability of this historic city while including a cluster of important new cultural buildings such as the House of Arts and Culture and the National Museum of Moroccan Archives, alongside major residential, commercial, and retail components. The team researched the city's history and its local traditions, meeting with local people to understand their needs and inform the design, which features large open landscaped spaces with water features.

Address: Bouregreg Valley, Rabat, Morocco

Status: Under construction, due to complete 2020

Size: 65,000 m²

Type: Masterplan

Client: Wessal Capital **Architect:** Atkins **Engineer:** Novec Morocco **Project Management:** Hill International



House of Arts and Culture ***Rabat, Morocco***

Created using 3D design programs and models to experiment with complex geometric forms, the design of this arts and cultural centre was developed by a multicultural team based in London, which provided a rich perspective on Morocco's cultural history whilst creating a cutting-edge, flexible design. The building contains performance spaces with a range of studios and gallery spaces providing platforms for young people and local and international artists.

Address: Rabat, Morocco

Status: Under construction, due to complete 2018

Size: 14,200 m²

Type: Cultural

Client: Wessal Capital **Architect:** Atkins London **Engineer:** Novec Morocco **Project Management:** Hill International



© Bruce Rowland

Gota Dam House ***Mozambique***

Overlooking a large man-made reservoir, this building features cantilevered roofs and a timber platform, granite enclosed bedrooms and a support space with winter gardens. Facing challenges caused by the issues of hyper-inflation and lack of available materials, the London team's decision to use granite from the site not only overcame the economic obstacles but ensured that the building blended harmoniously with the surroundings.

Address: Mozambique

Status: Completed, September 2012

Size: 1,500 m²

Type: Home

Architect: Studio Seilern Architects, Muzia Sforza **Local Architect:** Bruce Rowland Architecture **Structural Engineer:** Eckersley O'Callaghan **Local Engineer:** Marcussen and Cocksedg **Services Engineer:** DSA Engineers Ltd **Local Services Engineer:** Lage Consultants **Lighting Consultant:** BDP Lighting **Quantity Surveyor:** Matrix Quantity **Surveyors Contractor:** Elevate



Jabi Lake Abuja, Nigeria

This 3.6 km waterfront site is designed to be a key component for Nigeria’s regional economic development, and includes two hotels, a cinema, shopping centre, restaurants, offices and residential accommodation, with a strong public infrastructure and pedestrian environment. The masterplan clusters two, three or four components to resemble the formation of a northern Nigerian village and allow a flexible approach to the phased growth of the site.

Address: Abuja, Nigeria

Status: Design stage

Size: 360,000 m²

Type: Masterplan

Client: Metis Capital Partners, Duval Properties

Architect: Studio Seilern Architects **Local Architect:** Yakubu

Dimka **Services Engineer:** Buro Happold **Landscape**

Architect: Hyland Edgar Driver **Cost Management:** Currie &

Brown **Security Consultant:** IDG Security



Rubengera Carpentry School Rubengera, Rwanda

Upgrading a successful carpentry school, FCBStudios is working to develop a masterplan for new facilities, including workshops, classrooms, a kitchen and refectory, dormitories, and a business hub. Fast growing eucalyptus is being used for laminated beam fabrication, the kitchen design will minimise the use of wood and charcoal, ultimately improving air quality and reducing CO2 emissions, whilst dormitories are set between trees for natural shading, and include rainwater harvesting.

Address: Rubengera, Rwanda

Status: Under construction, due to complete 2020

Size: 2,230,000 m²

Type: Education

Architect: Feilden Clegg Bradley Studios

Client: Communaute Diocesses Abaja Ba Kristo, Rwanda

Structural Engineer: Buro Happold

Seychelles Strategic Land Use and Development Plan and Victoria Masterplan Victoria, Mahé, Seychelles

An ambitious spatial framework for the future of the Seychelles, this plan supports economic and social development, protecting the natural environment and ensuring climate change resilience, while also informing decision-making. Developing a robust evidence base and undertaking extensive stakeholder and community engagement, the London team led three intensive workshops bringing together nearly 400 stakeholders to develop and draft the plan.

Address: Victoria, Mahé, Seychelles

Status: Completed, September 2015

Type: Area strategy

Client: Seychelles Planning Authority; Abu Dhabi Urban

Planning Council **Planning, Urban design & Masterplanner,**

Transport, Environment, Heritage, Stakeholder and

Community Engagement: Arup **Economic forecasting:**

Oxford Economics **Agent:** JLL Dubai **Tourism strategy:**

WATG, London



Six Senses Zil Payson Filicity Island, Seychelles

This London-led project for an oceanside resort includes beach villas, a rock spa and world class venues for dining and drinking. Integrating sustainable materials and technologies, the buildings blend into the island geography through their form, materials and textures. This sustainable design draws on the local vernacular while appealing to international clientele.

Address: Filicity Island, Seychelles

Status: Under construction, due to complete 2017

Size: 18,000 m²

Type: Resort

Client: Felicite Island **Development Operator:** Six Senses

Architect: Studio RHE **Structural Engineer:** Glanville

Consultants, Winslow Naya Engineering, Atom Engineering and

Ralph Frichot



Modderfontein Regeneration Gauteng, South Africa

Using a new station, this new mixed-use masterplan is located 6-minutes to the city centre and 7-minutes to the airport, and will create over 50,000 new homes and 300,000 permanent jobs. Introducing compact city design that builds walkable neighbourhoods around public transit, the London team created a strategy that fixed major infrastructure while allowing flexibility of development over the next 40 years of phased delivery.

Address: Modderfontein, Lethabong, Gauteng, South Africa
Status: Design stage
Size: 1,600,000 m²
Type: Masterplan

Client: Zendai **Masterplan, Stakeholder Engagement, Socioeconomics, Environment, Transport & Infrastructure:** Atkins **Cost Consultant:** Atkins (F+G)
Transport, Infrastructure: Arup **SA Commercial Assessment:** Colliers International



Tsogo Sun Hotel Cape Town, South Africa

This 20-storey luxury hotel comprises 500 rooms, retail units, rooftop leisure facilities including a pool, gym, bar and terrace with panoramic views, a restaurant and bar at street level, and five conference venues accommodating up to 250 delegates. The London team liaised with local councils, conservationists and historic specialists for planning approval and to ensure this city centre development respects and enhances its immediate urban streetscape and neighbourhood.

Address: 23 Buitengracht Street, Cape Town City Centre, 8000, South Africa
Status: Under construction, due to complete 2017
Size: 20,000 m²
Type: Hotel

Client: Green Willow Properties **Architect:** Dexter Moren Associates **Structural Engineer:** Ekcon



AUSTRALASIA

AUSTRALASIA

With both strong cultural ties to London and the UK, Australia and New Zealand are seeing large-scale urban regeneration – including the revitalisation of public realm, historic structures and especially infrastructure – to support expanding populations, with an emphasis on understanding what makes a liveable city. London firms’ expertise in meeting the challenges of integrating transport infrastructure with public realm and in landscape-led regeneration in particular is proving to be much in demand.

Chadstone West Mall Chadstone, Melbourne, Australia

Expanding the north end of Melbourne’s Chadstone shopping centre, this project provides more than just additional retail space, creating an entertainment zone, two food districts, a 13-screen state-of-the-art cinema and Australia’s first Legoland Discovery Centre, in addition to a series of international flagship stores. Using the London team’s extensive retail centre experience, this project responds to the changing relationship of shopping to create a carefully crafted new urban environment.

Address: 1341 Dandenong Rd, Chadstone, Australia
Status: Completed, November 2016
Size: 135,000 m²
Type: Retail

Client: Gandel Group and Vicinity Centres **Architectural Design:** CallisonRTKL **Architect:** The Buchan Group **Food Gallery and Dining Terrace:** MTRDC **Structure and Civil Engineer:** Baigents, Atelier One **MEP,VT and Environmental Engineer:** Simpson Kotzman **Lighting Designer:** Electrolight **Landscape Architect:** Formium **Project Manager:** RCP Vic **Main Contractor:** Probuild **Initial form mesh generation:** Sean Ahlquist & Moritz Fleischmann **Form Development and Panel Optimisation script:** Atelier One, Dr Chris Williams (Bath University UK) **Subcontractor:** Seele



Eastland Shopping Centre Ringwood, Melbourne, Australia

Forming part of the Eastland Melbourne redevelopment, this two-storey library comprises a reinforced concrete construction with an atrium, and a roof supported by tree columns. Above the shopping centre entrance, a double-curved roof canopy known as the Shard forms a landmark gateway in the public square. ACME’s London office led the design and delivery while AKT II provided structural and facade advice for both the library block and the entrance canopy.

Address: 171-175 Maroondah Hwy, Ringwood VIC 3134, Australia
Status: Completed, May 2016
Size: Town Square 3,000 m², Library 3,000 m²
Type: Cultural

Client: QIC, Seventh Wave **Architect:** ACME **Structural Engineer:** AKT II



© Cristobal Palma



Elizabeth Quay Bridge Perth, Australia

Spanning a newly created inlet of the Swan River, this 110m-long dual-arched bridge for pedestrians and cyclists promotes continuous movement around the quay and links the island in the river to a popular recreational circuit. Locally sourced materials create a sculptural shape, with 22m-high illuminated arches ensuring the bridge is a focal point day and night. The London-based team shared digital designs daily to ensure that structural analysis kept pace with architectural geometry, overcoming technical and construction issues without compromising aesthetics.

Address: LOT 901 Riverside Dr, Perth, Australia

Status: Completed, January 2016

Type: Transport

Client: Perth Metropolitan Redevelopment Authority (MRA)

Architect: Arup Associates **Main Contractor and Managing Contractor:** CPB Contractors

Forrestfield Airport Link Perth, Australia

Greatly improving connectivity from the Forrestfield area and Perth's eastern suburbs, this station will include a bus interchange, parking for emergency services and commuter parking facilities for 2,500 cars. Linking public art proposals with other design elements, the project draws directly on the team's experience of working on the extension of the Docklands Light Railway to London City Airport and Woolwich.

Address: Forrestfield, Perth, Australia

Status: Under construction, due to complete 2019

Type: Transport Infrastructure

Client: Salini Impregilo/NRW JV **Architect:** Weston Williamson + Partners **Engineer:** GHD



© ACME

Robina Town Centre Extension Robina, Australia

Celebrating local produce, this new market hall – The Kitchens – is covered by an undulating timber-clad roof which creates a shaded day-lit space below for market traders, restaurants, show kitchens and food labs. The Kitchens hosts 55 new traders including butchers, fishmongers, restaurants and a micro-brewery. Designed and delivered from ACME's London office, supported by the smaller Australian office, the scheme also received design-stage engineering expertise from AKT II.

Address: 19 Robina Town Centre Drive, Robina, Australia

Status: Completed, November 2016

Size: 7,000 m²

Type: Retail

Client: QIC, Seventh Wave **Architect:** ACME **Structural Engineer:** AKT II



Crown Sydney Hotel Resort Sydney, Australia

An international competition-winning design, this landmark sculptural, curvilinear tower creates a new waterfront destination that contrasts with the orthogonal geometry of the tall buildings nearby whilst maximising the views of Sydney’s bridge and harbour. The pioneering nature of this project was realised by the team utilising emerging immersive design tools, such as virtual reality technology and intelligent, 3D parametric modelling techniques.

Address: Barangaroo Avenue, Sydney, New South Wales, Australia
Status: Under construction, due to complete 2020
Size: 117,650 m²
Type: Mixed-use

Client: Crown Hotels **Architect:** WilkinsonEyre **M&E Engineer:** AECOM **Structural Engineer:** Robert Bird Group

Martin Place Sydney, Australia

Using expertise garnered from London’s Crossrail, this project is part of an equally ambitious city-defining metro scheme for Sydney that seeks to integrate stations better with the urban public realm and place greater emphasis on customer experience. At Martin Place, the station has been redesigned so the entrance and exit is on the wide, pedestrianised boulevard rather than the congested Elizabeth and Castlereagh Streets.

Address: Martin Place, Sydney, Australia
Status: Design stage
Size: 4,000 m²
Type: Transport

Client: Sydney Metro **Architect:** Weston Williamson + Partners
Engineer: AECOM, WSP



International Towers Sydney, Australia

Conceived as sibling buildings within Barangaroo South, these three towers maximise sunlight and views and form a western extension to Sydney’s CBD, linking it to the waterfront and creating a new carbon-neutral downtown district. Each office tower responds to its unique geographic and environmental conditions with design aspects developed through workshops in London, creating buildings with low-energy facades, flexible 2,500 sqm floorplates and 100% fresh air.

Address: 200 Barangaroo Avenue, Sydney, Australia
Status: Completed, December 2016
Size: 300,000 m²
Type: Workspace

Client: Lendlease **Architect:** Rogers Stirk Harbour + Partners

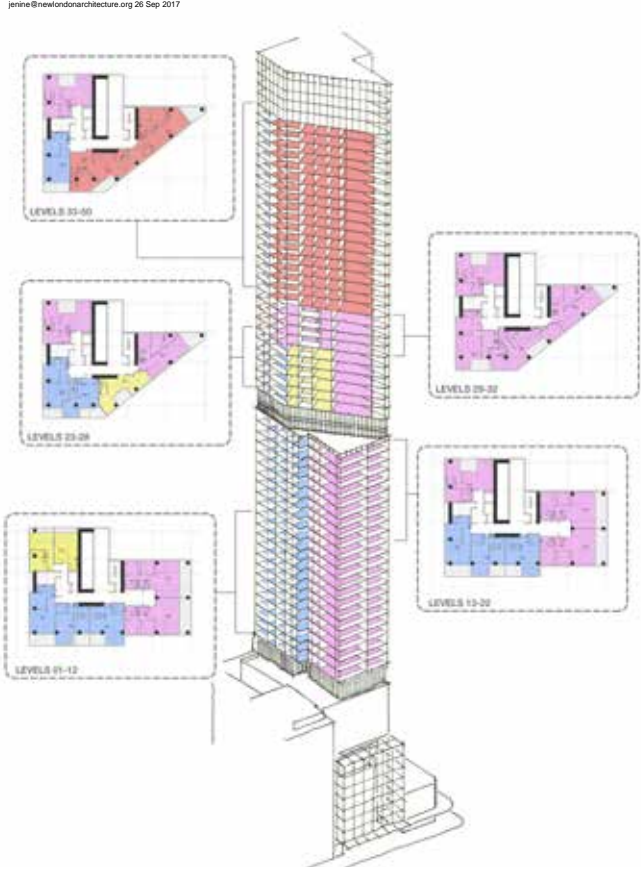


Pitt Street South Sydney, Australia

Creating a ‘city room’, this over-station development will create an open concourse space of civic proportions for the station entrance. An iconic tower above reinforces the primacy of the station entry in the streetscape, increasing its legibility in the precinct, while minimising its impact on light penetration into Pitt Street. The project applies lessons learnt from Crossrail’s intricate sites and the complex relationship of the stations with oversite development.

Address: Pitt Street, Sydney, Australia
Status: Design stage
Type: Transport

Client: Sydney Metro **Architect:** Weston Williamson + Partners
Engineer: GHD



Sandstone Precinct Hotel Sydney, Australia

Creating one of the world’s finest grand hotels, this project will open up historic former government-occupied buildings to allow the public to engage with their fabric for the first time, whilst retaining heritage features. Farrer Place will be transformed to reinstate it as a pivotal urban square, linking harbour and city. The design was developed in the capital utilising expertise in luxury residential, hotel and retail schemes.

Address: 35-39 Bridge Street, Sydney, Australia
Status: Design stage, due to complete 2020
Size: 32,000 m²
Type: Hotel

Design Architect: Make Architects **Executive Architect:** Ridley
Interior Designer: BAR Studio **Landscape Architect:** Aspect
Project Manager: Sagent **Structural Engineer:** TTW
Archaeology Consultant: Curio **Heritage Consultant:** GBA
Heritage Planning Consultant: JBA **Building Code Consultant:** McKenzie **Access Consultant:** MGAC **Cost Consultant:** Slattery **Services & Acoustics Engineer:** Wood & Grieves **Transport Engineer:** Arup **Fire Engineer:** CORE Engineering **Vertical Transport Engineer:** WSP

© Doug & Wolf



Wynyard Place Sydney, Australia

Located in the heart of Sydney’s central business district, this development comprises a 27-storey office tower, two heritage buildings and a world-class transit hall for Wynyard Station – one of the city’s busiest transport hubs. The tower will house the new headquarters for National Australia Bank, while the multi-level hall will contain grand entrances, legible pedestrian concourses and flagship retail stores. Conceived in London, the design draws on the thinking behind London Wall Place.

Address: 1 Carrington Street, Sydney, Australia
Status: Under construction, due to complete 2020
Size: 74,000 m²
Type: Mixed-use

Client: Brookfield **Design Architect:** Make Architects
Executive Architect: Architectus **Contractor:** Multiplex **Project Manager:** APP **Structural and Civil Engineer:** Robert Bird Group **Facade, M&E Engineer, Fire Safety & Vertical Transport:** Arup **Facade Access:** Altitude **Wind Analysis:** CPP **Groundwater Consultant:** Douglas Partners **Heritage Consultant:** GML **Heritage Building Regulations Consultant:** Group DLA **Transport Consultant:** GTA **Planning Consultant:** JBA **Accessibility Consultant:** MGAC **Landscape Designer:** Oculus **Acoustic Consultant:** Renzo Tonin & Associates **Cost Consultant:** RLB

©Factory Fifteen





Avon River Precinct Framework Christchurch, New Zealand

Responding to the catastrophic damage caused by Christchurch's earthquake in 2011, this framework sets out the future redevelopment of the corridor of the Avon River, running through the heart of the city. Drawing on their projects for London's river corridors, and utilising the Avon's banks and public realm as a catalyst for regeneration, BDP worked with local landowners, the community and the city council to produce a thriving waterside neighbourhood, with cafés, shops and offices.

Address: Avon River Precinct, Christchurch, New Zealand

Status: Design stage

Type: Design study

Masterplanner and Landscape Architect: BDP



CENTRAL AMERICA

Central America encompasses one of the world's key expanding growth areas for built environment industries, as Mexico is expected to become the largest construction market in Latin America by 2030. Increased urbanisation, investment in improving transport and tourism infrastructure and renewable sources of energy, and the challenge of meeting the demand for housing owing to population growth are all creating new opportunities for London firms to apply their expertise.



Acapulco Masterplan ***Acapulco, Mexico***

Forming part of a wider strategic urban masterplan, this development seeks to transform three large privately-owned sites into a new public space within the Zona Dorada, focussing on redeveloping and extending the Acapulco Convention Centre. Experience of working closely with key stakeholders produced a vision which builds upon the iconic international brand of Acapulco to produce an enhanced tourism offer as well as an attractive city for local residents.

Address: Zona Dorada, Acapulco, Mexico

Status: Design stage

Size: 450,000 m² and 40,000 m² convention centre

Type: Masterplan

Client: Fonatur **Masterplanner and Architect:** BDP





BBVA
Mexico City, Mexico

A new landmark on the skyline of Mexico City, this bank headquarters has been designed with an internal layout which promotes a sense of community and interaction between staff, with sky gardens providing meeting and break-out areas. The design, an eccentrically braced megaframe, is the first of its kind to be constructed anywhere in the world, providing excellent seismic performance, whilst maximising internal flexibility.

Address: Paseo de la Reforma, Colonia Juárez, Mexico City, Mexico
Status: Completed, February 2016
Size: 78,800 m²
Type: Workspace

Client: BBVA Bancomer **Architect:** LegoRogers (Collaboration between Rogers Stirk Harbour + Partners and Legorreta + Legorreta) **Project Manager:** JLL **Lighting Consultant:** Fisher Marantz **Structural Engineer:** ARUP, Colinas de Buen SA de CV **Cost Consultant:** INPROS **Electrical Engineer:** DEC Group **Services Engineer:** ARUP **HVAC Engineer:** DYPRO **Visualisation:** Hayes Davidson **Client Consultant:** Quanto Arquitectura



Panama Pacifico, Special Economic Zone
Panama City, Panama

Offering a vibrant mix of enterprise, residential and recreational amenities, this new masterplanned sustainable city includes 1 million sqm of commercial space, 20,000 new homes, with tourism and leisure facilities, set within a landscape of lush tropical forest, mangroves and wetlands. Specialist technical inputs from a multi-disciplinary team provided sustainable planning and urban design principles responding to a wide range of local social, economic and environmental issues.

Address: Panama Pacifico, antigua Base Aérea de Howard, Panama City, Panama
Status: Under construction
Size: 1,400,000 m²
Type: Mixed-use

Client: London and Regional Panama **Masterplanner:** Atkins International



Red House
Port of Spain, Trinidad and Tobago

Leading the renovation and restoration of the 1840s Red House for the Parliament of Trinidad and Tobago, the London team provided expertise in all repairs to the building, including the preparation of drawings, schedules and specifications for slate roofing, external render, internal plasterwork, joinery, cast iron balustrades and copper roofing. The adaptation of the building for use by the current parliament also involved a major archaeological dig during the design period.

Address: The Red House, Woodford Square, Port of Spain, Trinidad and Tobago

Status: Under construction, due to complete 2018

Size: 3,700 m²

Type: Public building

Client: The Parliament of Trinidad and Tobago (UDeCOTT)

Architect: Donald Insall Associates and Bernard Mackay

Architect **Quantity Surveyor:** Ellis and Associates **Structural**

Engineer: C.E.P, with consultancy from James Miller **M&E**

Engineer: ENCO **Lighting Designer:** Sutton Vane Associates

Stollmeyer’s Castle
Port of Spain, Trinidad and Tobago

Repairing and restoring one of the ‘The Magnificent Seven’ late 19th/early 20th-century houses in the centre of Trinidad’s capital, this project revises the existing internal layouts, allowing for the sensitive integration of modern amenities and enabling the mansion to host visiting dignitaries. The London team’s expertise in local building materials, construction techniques and design typologies was applied to the repair of the internal and external built fabric and rationalisation of previous changes to the building.

Address: Maraval Road, Port of Spain, Trinidad and Tobago

Status: Under construction, due to complete 2017

Size: 720 m²

Type: Conservation

Client: Government of Trinidad and Tobago **Conservation**

Architect: Donald Insall Associates **Local Architect:** Bernard

Mackay **Structural Engineer:** C.E.P. Limited **Quantity**

Surveyor: Ellis & Associates Ltd **M&E Engineer:** E.N.C.O.



CENTRAL ASIA & RUSSIA

London teams are continuing to play a key role in modernising and developing the infrastructure and architecture of central Asian cities, which were once so dominated by a rigidly monumental tradition of Soviet urban planning and design but have emerged as new, dynamic hubs of the global economy. Expertise in high-end residential and commercial developments, refurbishment and contextual masterplanning is especially in demand, alongside the technical ability to respond to the demands of rapidly changing climatic conditions.



© Mr Farid Khayrulin

Baku Flame Towers Baku, Azerbaijan

Seeking to create a landmark that represents Azerbaijan's emergence onto the global stage, this project comprises three flame-shaped buildings, transforming the skyline whilst recognising Azerbaijan's history of fire worship. Each tower has a different function: a 39-storey residential building; a 318-room hotel; and a 33,000 sqm flexible workspace. Pushing the boundaries of existing design tools, the project team developed new software functions that will support future design requirements.

Address: Mehdi Huseyn Street, Baku, Azerbaijan

Status: Completed, 2013

Size: 280,000 m²

Type: Mixed-use

Client: Azinko Development MMC **Architect:** HOK and DIA Holdings **Project Manager:** Hill International

Old Town Residence Baku, Azerbaijan

Drawing on the team's experience of working with historic buildings and knowledge of the local building stock, this Old Town building has been fully refurbished to create a high-end private house featuring a new rooftop extension. Clad in bronze, the extension creates a double-height dining room and reveals panoramic views from the terrace and living spaces across the Caspian Sea. Luxury materials include marble, hardwoods and onyx.

Address: Old Town, Baku, Azerbaijan

Status: Design stage, due to complete 2018

Size: 800 m²

Type: Historic building

Architect: ÜberRaum Architects **Structural Engineer:**

Fluid Structures **Visualisation:** FUMO Studio

Surveyor: Ganter **Interior:** Waldkirch



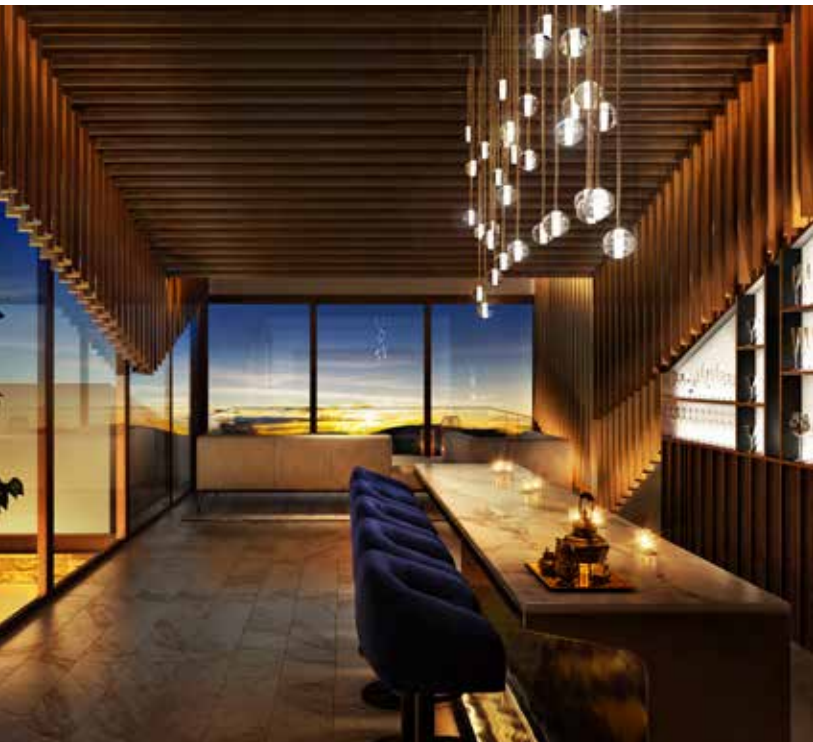


Arcus III Moscow, Russia

This 15-storey office tower incorporates a saw-tooth facade of coloured and clear glass designed to respond to Moscow’s rapidly changeable thermal conditions. The Class A workspace is combined with two executive floors, two levels of underground parking, and lobby, retail and restaurant facilities at ground level alongside new public realm. London specialists designed the building, facade, landscape and lighting alongside team members in Istanbul and Moscow.

Address: Leningradski Prospekt, Moscow, Russia
Status: Completed, 2015
Size: 48,000 m²
Type: Office

Client: AB Development **Architect:** Aukett Swanke
Structure and Services: Finproekt **Facade:** Buro Happold **Landscape:** Gillespies **Lighting:** LAPD
Transport: ETC



Three Rivers Masterplan Gabala, Azerbaijan

Set in Gabala in mountainous northern Azerbaijan, this masterplan covers a steeply sloping site to create 65 villas overlooking the river, valley and plain. Ranging from 600–1,000 sqm, they are organised around landscaping and water features that channel snow melt, preventing flooding while creating a beautiful feature. The landscape-driven design gives each villa a close relationship to the hillside topography and makes the most of long views and panoramic vistas.

Address: General Hazi Aslanov, Gabala, Azerbaijan
Status: Under construction, due to complete 2018
Size: 300,000 m²
Type: Masterplan

Client, Structure & Civil Engineer: Gilan Construction & Development **Architect:** ÜberRaum Architects **Landscape Design:** Coe Design
Visualisation: FUMO Studio



Mega Teply Stan Moscow, Russia

Repositioning an existing mall consisting of 208 stores and two major anchors, IKEA and AUCHAN, this comprehensive refurbishment project has updated the food court and upgraded facilities to keep the shopping centre’s destination status against growing competition. BDP coordinated a multi-disciplinary team, having been initially commissioned to undertake the refurbishment concept and schematic design stages, and were subsequently appointed to develop a more extensive reconfiguration and extension of the building.

Address: Teply Stan Centre, Moscow, Russia
Status: Design stage, due to complete 2019
Size: 180,500 m²
Type: Retail

Client: Mega Teply Stan **Masterplanner, Architect and Interior Designer:** BDP



© Edmund Sumner

Bolshevik Factory Moscow, Russia

This redevelopment of one of Moscow's most significant examples of industrial heritage spans seventeen buildings of varying ages and styles, including listed structures, and provides office space, a covered street, homes, 1.5ha of public gardens and a new Museum of Russian Impressionism. The project draws on the team's expertise in design, development, implementation and post-completion analysis from previous schemes delivered in London and elsewhere.

Address: Leningradsky Prospekt, Moscow, Russia

Status: Completed, January 2016

Size: 55,0000 m²

Type: Mixed-use

Client: O1 Properties and The Tactics Groups

Architect: John McAslan + Partners **Project**

Management: AB Development **Executive Architect:**

Spectrum **Brand Design:** Assembly Studios **Facade/**

Roof Engineer: Buro Happold **Lighting:** GIA Equation

© Mikhail Rozanov



The Soyuz Project Moscow, Russia

This masterplan creates an urban district with a sustainable mix of uses, employing expertise garnered from creating residential-led, context-driven masterplans across the world. To the east of the site, commercial space shields the development from an existing road, whilst public uses are concentrated in the large piazza and along the river's edge, leading to a landmark concert hall. Residential accommodation is set within a series of linear blocks, campanile towers and urban squares, softened with garden spaces and scenic pedestrian routes.

Address: Luzhnetskaya Embankment 2/4, Moscow, Russia

Status: Design stage

Size: 204,7000 m²

Type: Mixed-use

Masterplanner: Squire and Partners



I am Moscow Residential Complex Moscow, Russia

Delivering 400 apartments in a former warehouse district, this project forms part of a new masterplan to remedy the area’s rapid, piecemeal redevelopment. The facade strategy, using a mix of German brick and limestone, knits into the existing streets and resolves fragmented land ownership. MaccreanorLavington:MLA+ was responsible for the revised planning application, the technical design and specification of the facade, and the supervision of the construction process.

Address: Shluzavoy Canal Zamoskvorechye District, Moscow, Russia
Status: Under construction, due to complete 2017
Size: 43,000 m²
Type: Housing

Client: PSN Group **Architect:** MaccreanorLavington:MLA+
General Contractor: Ant Yapi **Masterplan:** David Walker architects

Residential Towers and Mixed Use Podium Perm, Siberia, Russia

The design of these three 25-storey high-end residential towers integrates the team’s wider skills in residential design with the requirements of an extremely challenging local environment where temperatures range from +35° to –35°. With facade designs balancing requirements for provision of sunlight and for high insulation densities, the slender towers rise above a mixed-use podium housing retail, offices and a kindergarten at street level.

Address: Perm, Siberia
Status: Under construction, due to complete 2017
Size: 42,000 m²
Type: Mixed-use

Client: Talan and ConStrim **Architect:** Aukett Swanke



Grey Belt Regeneration Masterplan Saint Petersburg, Russia

Regenerating a vast swathe of an industrialised section of the former city fringe, this complex masterplan seeks to enhance the use of the unique industrial zone, incorporating the existing infrastructure while embracing local heritage and paving the way for long-term urban renewal. The team initiated a consultation forum through social media to invite discourse on contextual regeneration, which has strongly influenced the development of the proposal and continues to be an active part of the implementation process.

Address: Admiralteysky, Kirovsky, Moskovsky and Frunzensky District, Saint Petersburg, Russia
Status: Under construction
Size: 40,000 m²
Type: Masterplan

Client: City of St. Petersburg **Architect:** MaccreanorLavington:MLA+





Trinity Place
*Saint Petersburg,
Russia*

Creating a new residential quarter in the Petrogradsky district, on the banks of the Malaya Nevka River, this luxurious building was designed to enclose a landscaped courtyard, affording views of a central garden and the river. Facades feature a series of stone bays with projecting brass-framed bay and oriel windows to maximise views. This competition-winning design draws on the team's expertise in delivering contextual, crafted high-end homes.

Address: Admirala Lazareva
Embankment, Saint Petersburg, Russia

Status: Under construction, due to
complete 2019

Size: 17,500 m²

Type: Mixed-use

Architect: Squire and Partners

Client: GHP Group

Structure: Spectrum



EAST ASIA

Of all global markets, China is among the largest and strongest. Its continuing transformation from an industrial into a consumer society and services-led economy has seen an explosion of development across its cities. Here, London teams' experience in tall buildings, as well as high-end hotel, retail, leisure and residential projects, has been much sought after and has influenced the design and development of new landmark schemes that are shaping China's urban skylines.



China Zun Beijing, China

Located at the heart of the new CBD extension in Beijing, China Zun will be the city's tallest building at 528m high and one of the world's top ten tallest buildings. The landmark tower incorporates office headquarters, rental office space, an observation deck, a hotel and a business club. Farrells' KK100 Tower in Shenzhen stills stands as the tallest building in the world by a British architect, with this expertise influencing the design of China Zun.

Address: Beijing, Chaoyang, Guomao Bridge

Status: Under construction, due to complete 2018

Size: 428,000 m²

Type: Mixed-use

Concept Architect: Farrells **Structural Engineer:** ARUP



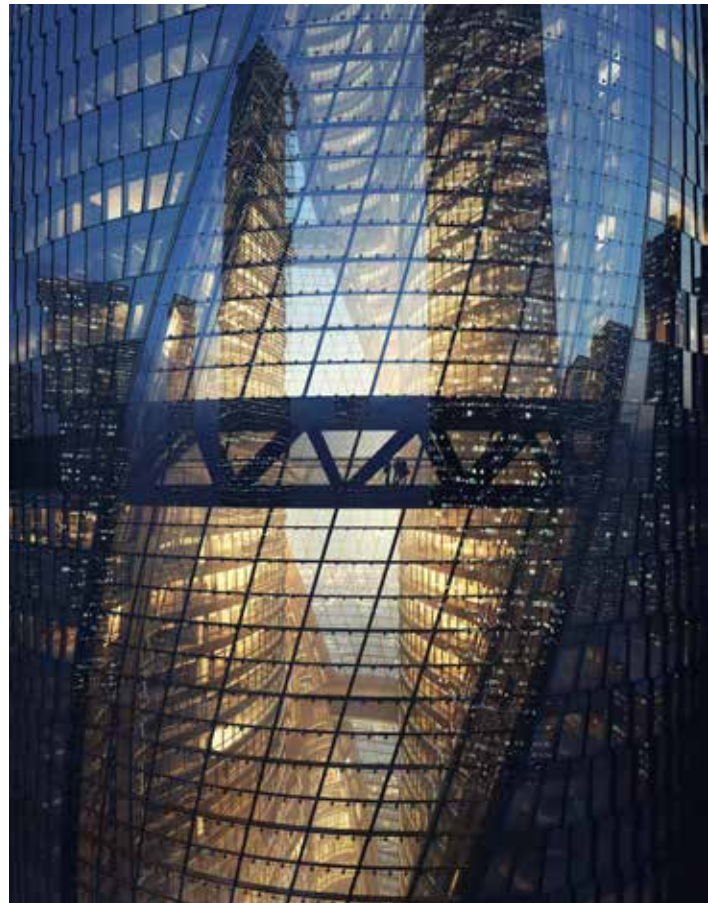


Leeza SOHO Beijing, China

Leeza SOHO rises as a single divided volume with each half on either side of a new subway tunnel. A central atrium – the world's tallest – extends the full 190m height of the building, connecting the two halves and creating a new public space for the city. Zaha Hadid Architects' team in London have collaborated with SOHO China to implement proven technologies in 3D BIM, construction management and building operations, resulting in increased efficiencies during construction and significantly reduced operational energy consumption and emissions.

Address: Li Ze Lu, Fengtai Qu, Beijing Shi, China
Status: Under construction, due to complete 2018
Size: 428,000 m²
Type: Mixed-use

Client: Soho China Ltd
Architect: Zaha Hadid Architects



The Temple House Chengdu, China

From the restored Qing Dynasty-era entrance building to the contoured garden courtyard, the design of Temple House draws on centuries of local tradition and landscape. Referencing typical 'siheyuan' courtyard house design, the hotel is defined by two L-shaped blocks bordering an inner garden, with an outer facade of brick and stone-lintel weave and inner facade of fritted glass curtain walls. The London-based team drew on extensive experience in hotel, luxury residential and retail design in the UK and abroad, including the refurbishment of Montpellier Chapter hotel in Cheltenham, Gloucestershire.

Address: 81 Bitieshi Street, Jinjiang District, Chengdu, China
Status: Completed, July 2015
Size: 35,500 m²
Type: Hotel

Client: Swire Properties **Architect:** Make Architects **Engineer:** Arup **Local Design Institutes:** SWADI / IID **Construction Manager:** Swire Properties/Sino Ocean Land **Landscape Designer:** Urbis **Art Consultant:** Alison Pickett **F+B Designer:** AvroKO **Signage:** Graphia Brands **Lighting:** LPA **Catering:** Polytek





Dalian City Waterfront Regeneration Strategy Dalian, China

Transforming Dalian's historic industrial docks into a place of knowledge, culture and wellbeing, the scheme uses a range of bridges, city spaces, new cultural buildings and promenades to stitch the city and its waterfront closer together. Arup's Integrated City Planning (ICP) team, together with Arup civil and maritime engineers, brought collaborative skills in economics, landscape and urban design to this complex site, where extreme climate, divergent commercial interests and vast industrial scaled bodies of water challenge its future transformation.

Address: Dalian, China

Status: Design stage

Size: 2 million m²

Type: Masterplan

Client: Swire Properties **Urban Design, Masterplanner, Landscape Architect, City Economics, Infrastructure, Maritime and Environmental Design:** Arup



Longgang Industrial Park Guangdong Province, China

This design creates a high-tech urban destination, combining office, residential, entertainment and retail, with passive and active technologies and methods to reduce energy – with aspirations to achieve zero carbon emissions. A linear oval 'sky park' at the heart of the development connects buildings at roof level, creating a biologically diverse urban oasis with panoramic views. WATG's London office offered architecture, masterplanning, landscape, strategy and interior design services to the project.

Address: Guangdong Province, China

Status: Design stage

Size: 930,000 m²

Type: Mixed-use

Client: Yitian Group **Architect:** WATG



Hangzhou Caravanserai Hangzhou, China

The Hangzhou Caravanserai is a visitor attraction in a remote and beautiful valley near Hangzhou, China's number one destination for internal tourism. It comprises a number of linked caravanserais located along a Silk Road spine, with cafés, restaurants, retail and hotels, set in a rural landscape of woods, hills and farmland. Ash Sakula's London team collaborated closely with the client, users and stakeholders to successfully create strong connections between the existing facilities and the proposed new developments.

Address: Zhong Qiao-Cun Slow Village, Hangzhou, Zhejiang, China

Status: In planning, due to complete 2019

Size: 83,430 m²

Type: Masterplan

Client: Shandong Xiangyu Industrial Group Co Ltd

Architect and Masterplanner: Ash Sakula Architects

Structural Engineer: Buro Happold **Destination**

Consultant: Fourth Street **Cultural Curation:**

Susanna Thornton **Property:** Colliers



Nanchang Wanda Mall Nanchang, China

The Nanchang Wanda Mall is a three-storey luxury retail and entertainment space. Clad in rows of large porcelain tiles with images of auspicious animals, birds, plants and evocations of landscapes, the building's design celebrates regional heritage and the locally produced Chinese blue and white porcelain.

Address: Bayi Ave, Donghu Qu, Nanchang Shi, Jiangxi Sheng, China

Status: Completed, 2016

Size: 193,000 m²

Type: Retail

Client: Nanchang Wanda City Investment Co. Ltd. Subsidiary of the Dalian Wanda Group **Architect:** STUFISH Entertainment Architects

Nanjing Medical University Nanjing, China

The 85,000 sqm project at Nanjing Medical University is for two new buildings on the university's Jiangning Campus: one for teaching and research, the other for administration, a museum and conference auditoria. The sustainable design responds to the specific climatic conditions of Jiangsu province, while providing access to landscaped spaces throughout the year. BDP was selected for the project based on the practice's leading expertise in global higher education trends.

Address: 101 Longmian Avenue, Jiangning District, Nanjing, China

Status: Completed, April 2016

Size: 85,000 m²

Type: Education

Client: Nanjing Medical University **Architect, C&S, BES and Sustainability:** BDP



Jiangbei Nanjing Library Nanjing, China

The scheme provides a new state-of-the-art library and media centre in the Jiangbei district of Nanjing. Comprising of two buildings connected by a large glass atrium, the project included a 25,000 sqm library with 7 storeys of reading areas, a central bookshelf tower, and links to the adjacent parkland. BDP’s London team has an extensive portfolio of library, academic and similar civic design projects including Cardiff Library, learning from which informed the design at Jiangbei.

Address: Jiangbei district of Nanjing, China
Status: Design stage
Size: 38,000 m²
Type: Cultural

Client: NJU **Architect and Landscape Architect:** BDP



Cloister Qingdao, China

This masterplan for the headquarters of Qingdao Iron and Steel comprises six buildings housing showrooms, research facilities, restaurants, sports facilities and offices. Each building offers unique external spaces with an elegant triple-height multi-functional walkway acting as a protected private promenade – a cloister for the company’s 6000+ staff. The London-based team brought key design features to improve the building’s sustainability credentials and climatic performance, a significant achievement in this industrial context.

Address: No. 5 Zunyi Road, Qingdao, 266043, China
Status: Completed, December 2014
Size: 40,000 m²
Type: Masterplan

Client: Qingdao Iron and Steel Group **Architect:** Coffey Architects **Structural Engineer:** Rodrigues Associates **M&E Consultant:** Conserv



179 East Nanjing Road Shanghai, China

The 179 Nanjing East Road cluster of urban blocks, historic buildings and street patterns provides a world-class new destination for Shanghai with high-end retail, restaurants, leisure, and a boutique hotel. The previous experience of BDP’s London team on similar projects including the renovation of Covent Garden, the Royal Albert Hall and the Royal Naval College in Greenwich provided precedents and direction for the design.

Address: 179 East Nanjing Road, Shanghai, China
Status: Completed, 2016
Size: 9,600 m²
Type: Retail

Client: Shanghai Bund Investment Group Ltd
Architect, Masterplanner, Landscape Architect and Lighting Design: BDP

Shanghai Shipyard Shanghai, China

The Lujiazui central financial district of Shanghai Pudong New Area is the first national financial zone in China, building on Shanghai’s economic and cultural foundations. The architecture maximises views towards the riverfront, offering office, retail, leisure dining and public realm for workers and visitors. The London design team called on expertise in post-industrial waterside development such as London’s Royal Albert Dock and Lots Road.

Address: Pudong, Shanghai, China
Status: Under construction, due to complete 2017
Size: 15,825 m²
Type: Mixed-use

Client: CITIC **Architect:** Farrells





Wanda Shanghai Wujiaochang Plaza Shanghai, China

Uniting the past with modern technologies, this facade renovation and public realm development takes traditional Chinese elements as inspiration, combining them with the latest in digital spectacle. Historical Chinese wooden apothecary cabinets and the classical gardens of Suzhou influenced the design. Led by the London team, this concept brings together heritage, ambitious architectural sophistication and cutting edge technologies in a test-case of new retail design.

Address: Wanda Wujiaochang Plaza, Shanghai, China

Status: Design stage

Size: 15,000 m²

Type: Retail

Client: WandaGroup **Architect:** Farrells



Liu Xian Dong Micro Apartments Shenzhen, China

Comprised of 4,500 micro-residential units, purpose-built for new and temporary residents, and built on disused industrial land, this new quarter offers access to shared facilities such as restaurants, a fitness club and public living rooms, as well as a hotel. The London-based team worked within the parameters of the high-density programme with a minimal construction budget to successfully create a comfortable living environment with quality public space.

Address: Liuxian Avenue, Nanshan District, Shenzhen, China

Status: Under construction, due to complete 2018

Size: 150,000 m²

Type: Housing

Client: Shenzhen Vanke **Architect:** MaccreeanorLavington:MLA+
Local Design Institute: Capol **Landscape Architect:** Locus



One Excellence Shenzhen, China

One Excellence is the first major development in Qianhai, a vast new district in western Shenzhen aspiring to form an international business centre that rivals Wall Street, Canary Wharf and Hong Kong. The project exemplifies Farrells' approach to and philosophy of design, with the London, Hong Kong and Shanghai offices regularly working closely together to consult on high density, mixed-use city centre developments centred on transport interchanges.

Address: Qianhai, No.1 Shenzhen, China

Status: Under construction, due to complete 2018

Size: 450,200 m²

Type: Mixed-use

Client: Excellence Group **Architect:** Farrells **Structural Engineer:** AECOM

Gemdale Ganxia Tower Shenzhen, China

Soaring to a height of 380m, the Shenzhen Gemdale Tower 1 will comprise office, hotel and residential accommodation over 80 floors, forming part of the new Gangxia redevelopment and providing a major new landmark for Shenzhen. KPF and WSP London teams worked closely together, using parametric modelling and developing custom software to create a highly flexible building with an anti-seismic structure.

Address: Shenzhen, China
Status: Under construction, due to complete 2018
Size: 245,000 m²
Type: Mixed-use

Client: Gemdale Group **Architect:** Kohn Pedersen Fox **Structural Engineer:** WSP

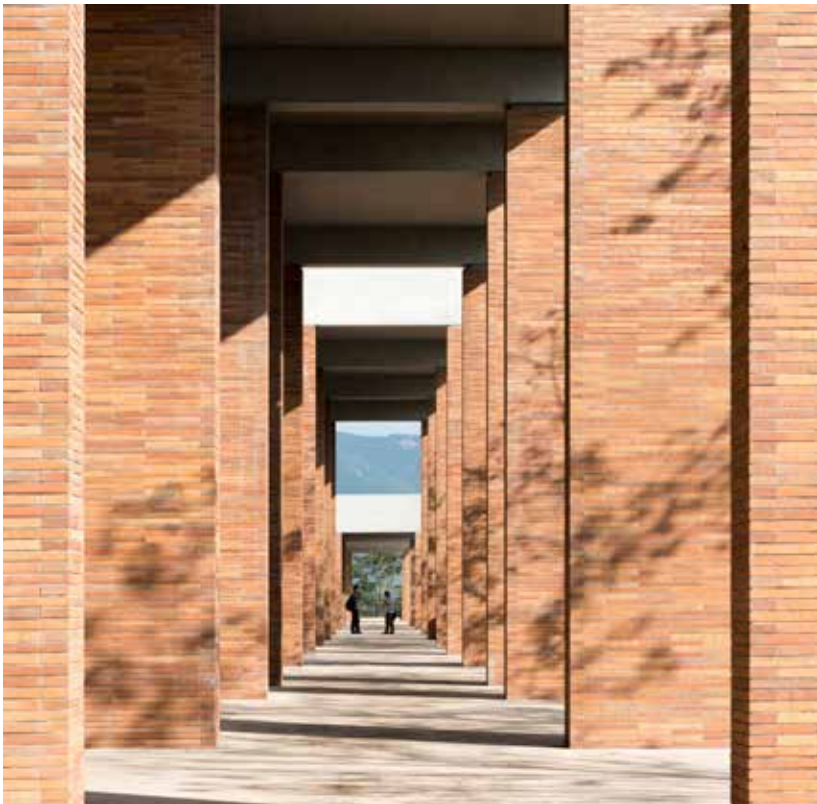


Xiao Jing Wang Shenzhen, China

Located to the east of Shenzhen, this mixed-use urban development consists of a hotel, clubhouse, retail and residential components, and a 55,000 sqm university campus for China Resources Group. The design of the university buildings respects this area’s history of brick masonry buildings, whilst adding a contemporary interpretation of the conventional building block. More than half a metre long, the specially designed brick is made from local earth and the entire manufacturing process was carried out at a neighbouring factory.

Address: Shenzhen, China
Status: Completed, 2016
Size: 55,000 m²
Type: Education

Client: China Resource Land **Architect:** Foster + Partners **Electrical Engineer:** APLD + LPA

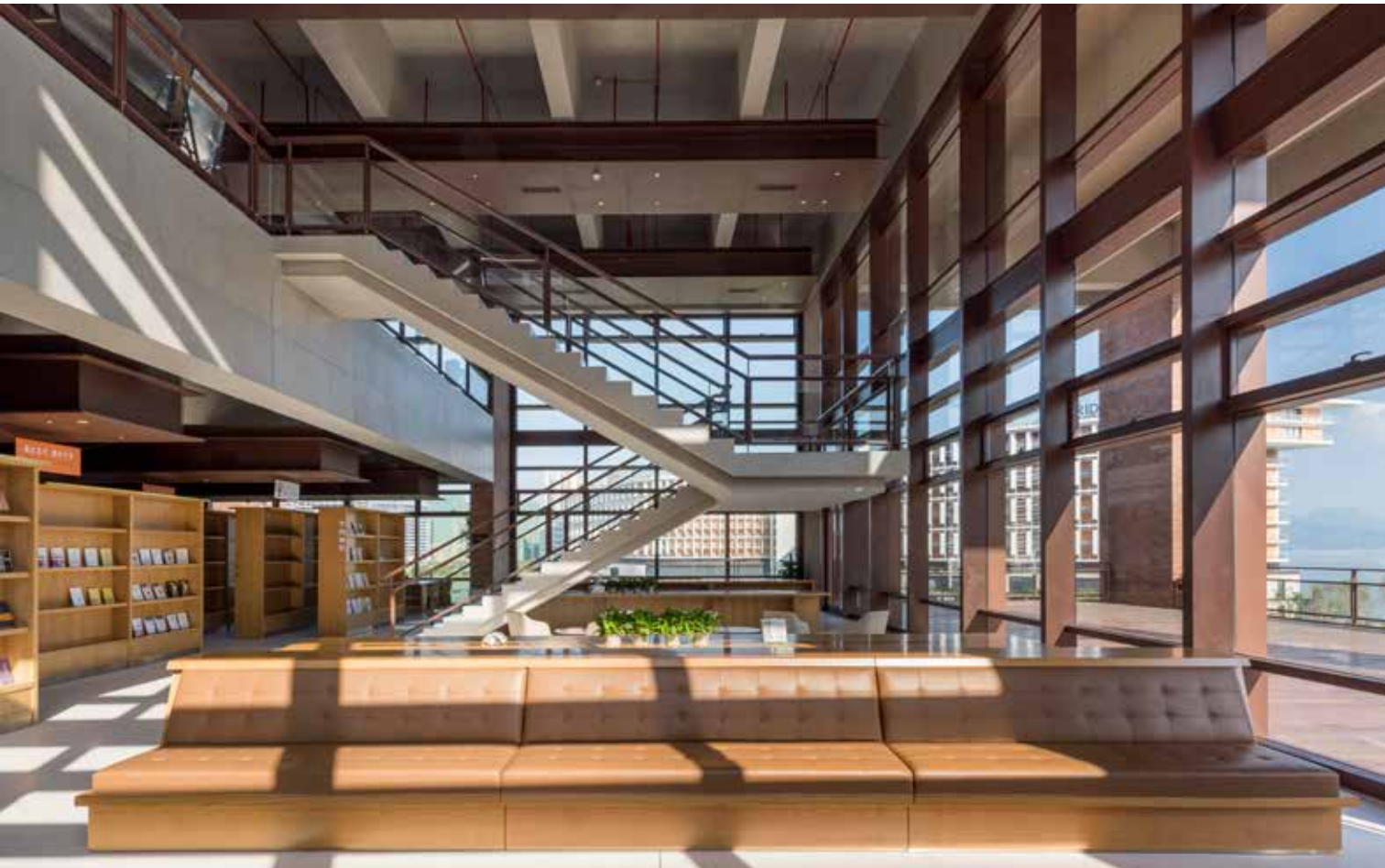


Shenzhen Bao’An G107 Corridor Regeneration Masterplan Shenzhen, China

In collaboration with CAUPD, MaccreeanorLavington:MLA+ designed a masterplan to lead the regeneration of a 53 sq km corridor along China’s G107 highway, connecting Shenzhen to Beijing. The masterplan addresses the existing fragmented urban fabric, vast current infrastructure and diversity of use in the area, creating new hubs for urban functions and public space. As part of the project, the London-based practice also proposed a ‘Project Handbook and Regeneration Method’ based on previous urban regeneration experience in China.

Address: Bao’An District Shenzhen, China
Status: Under construction
Size: 53,000,000 m²
Type: Masterplan

Client: People’s Government of Bao’An District **Urban Planning:** CAUPD China Academy of Urban Planning and Design **Engineer:** Shenzhen Municipal Design & Research Institute **Urban Designer:** MaccreeanorLavington:MLA+ **Landscape Architect:** Felixx





Suzhou District Suzhou, China

The Suzhou District Planning Exhibition Hall is a 12,000 sqm exhibition facility, intended to showcase the past, present and future developments of Suzhou District. Sited on the edge of the central parkland area, it houses a 1,000 sqm model of the new district, 3D viewing gallery, conference facilities and multi-purpose exhibition halls. The London design team drew on past experience in system build and prefabrication techniques to deliver the project from conception to completion in just 18 months.

Address: Suzhou, China
Status: Completed, 2012
Size: 12,000 m²
Type: Exhibition Hall

Client: Suzhou Wuzhong Economic Development District Construction Department **Architect, Landscape Architect & Lighting Designer:** BDP

Xi'an Jiaotong Liverpool University South Campus Suzhou, China

The masterplan for a new international university, a partnership between the University of Liverpool and Xi'an Jiaotong University, provides world-class teaching, laboratory and research facilities. BDP's approach involved using separate teams from studios in London, Glasgow, Manchester and Shanghai to design individual campus buildings, resulting in a varied and engaging campus reflecting the new culture and context of the university.

Address: Suzhou Industrial Park, Suzhou, China
Status: Phases at different stages of construction, due to complete 2017
Size: 115,622 m²
Type: Education

Client: Xi'an Jiaotong Liverpool University **Masterplanner, Architect & Landscape Architect:** BDP



Livat Shopping Mall Wuxi, China

This indoor mall, with IKEA as an anchor, features approximately 300 stores, with convenient access via a light railway station, multiple bus stops, over 5,200 car parking spaces and 4,900 moped and bicycle spaces. BDP's multi-profession, and interdisciplinary London studio brought strength and depth of experience to the project, along with innovation and international best practice in architecture, interior design, lighting, landscape and wayfinding design.

Address: Tuanjie Avenue, Wuxi, China
Status: Completed, June 2014
Size: 140,000 m²
Type: Retail

Client: Inter Ikea Centre China **Architect, C&S, Building Services, Interior Designer, Landscape Architect & Lighting Design:** BDP



Dai Show Theatre Xishuangbanna, China

Commissioned as part of a large cultural development in Xishuangbanna, the 1,183-seater Dai Show Theatre's structure is inspired by the geometry of the palm frond found in local Dai culture. Delivering both the architecture and performative elements of the theatre allowed Stufish's London studio to achieve a successful and holistic architectural language throughout.

Address: Xishuangbanna, Yunnan Province, China
Status: Completed, September 2015
Size: 19,500 m²
Type: Cultural

Client: Dalian Wanda Group **Architect:** STUFISH Entertainment Architects **Structural Engineer:** China IPPR International Engineering Co.Ltd



The Cradle Towers Zhengzhou, China

Comprised of five mixed residential, office and hotel towers swooping out of a lifted retail podium, this project takes inspiration from the nearby Songshan mountainscape. Vertical courtyards and gardens bring daylight into the towers and establish a fluid landscape across the scheme. The London team brought a wide range of technical design expertise, including sophisticated 3D modelling, advanced computational structural analysis, and responsive unitised facade design, which incorporates world-leading glass engineering.

Address: 44 Long Hai Zhong Lu, Zhengzhou, Henan Sheng, China
Status: Design stage, due to complete 2019
Size: 434,000 m²
Type: Mixed-use

Architect and Landscape Architect: Tonkin Liu **Structural Engineer:** Tim MacFarlane / Glass Light and Special Structures
Facade Consultant: Christopher Eyers & Associates



Kennedy Town Swimming Pool Hong Kong

Built as part of the wider development of Kennedy Town railway station, this project includes a 50-metre outdoor pool and a smaller leisure pool, both with views of Victoria Harbour and Belcher Bay Park, as well as two indoor pools, a jacuzzi and an outdoor garden. Farrells' experience in designing leisure complexes and swimming pools in London informed the project.

Address: 2 Sai Cheung Street North, Kennedy Town, Hong Kong
Status: Completed, December 2016
Size: 11,782 m²
Type: Leisure

Client: MTR Corporation Limited **Architect:** Farrells **Structural Engineer:** AECOM and PB



Futako Tamagawa Tokyo, Japan

Taking a blank slate to create a new suburban community, this design concept responds to the site's location on the very edge of Tokyo, its adjacency to the Tamagawa River and its transitional role at the threshold between city and nature. London-based Conran and Partners used building density and height, materials, greenery and spatial design to create a commuter journey with wellbeing at its heart, taking people from work to home through a central green ribbon inspired by nature.

Address: Setagaya, Tokyo, Japan
Status: Completed, November 2015
Size: 400,000 m²
Type: Mixed-use

Client: Futako-Tamagawa **Architect:** Conran and Partners **Committee Design and Supervision:** Research Institute of Architects, Tokyu Architects + Engineers, Nihon Sekkei Inc **Landscape:** Landscape Plus Inc. **LEED Consultant:** Woonerf Inc **Construction (Phase II):** Kajima Corporation **Project Implementation Body:** Association for Urban Redevelopment of Futako Tamagawa Higashi-Chiku





Paradise City Incheon, South Korea

Paradise City will provide a new vibrant destination adjacent to Incheon airport for the 2018 Winter Olympics. City Plaza is a public space covered in a large free spanning faceted roof, providing a controlled environment for leisure and cultural activities. A collaboration between Hawkins\Brown and Korean practice lokaldesign provided the balanced expertise required in the brief to integrate Eastern and Western influences in the design.

Address: Incheon, South Korea
Status: Under construction, due to complete 2018
Size: 20,000 m²
Type: Mixed-use

Client: Paradise Sega Sammy Co Ltd. **Architect:** Hawkins\Brown, MVRDV and lokaldesign **Structural Engineer:** Arup, Atkins
Landscape Architect: BD Landscape **Local Executive Architect:** Gansam



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Dongdaemun Design Plaza Seoul, South Korea

The Dongdaemun Design Plaza is designed as a cultural hub at the centre of the city, comprising a design museum, library and educational facilities, conference centre and a new park. In what was the first public project in South Korea to implement advanced digital construction services, ZHA's London team trained teams in Korea to apply new innovations, empowering them to achieve much more control of construction processes with much greater precision.

Address: 281 Euljiro, Jung-gu, Seoul, South Korea 100-197
Status: Completed, March 2014
Size: 62,692 m²
Type: Cultural

Client: Seoul Metropolitan Government / Seoul Design Foundation **Architect:** Zaha Hadid Architects **Local Architect:** Samoo Architects **Structure, M.E.PF Services Engineer, Lighting, Acoustic:** Arup Engineers **Landscape:** Gross Max **Quantity Surveyor:** Davis Langdon & Everest





Hyundai Capital Convention Hall Seoul, South Korea

Hyundai Capital’s new global headquarters, a custom assembly space atop their south tower in Seoul, required a flexible space capable of hosting large training sessions, company-wide meetings, lectures and employee parties. Gensler’s London design team drew inspiration from the artists of the famed Light and Space movement, as well as classic photography cycloramas, to craft a visual experience which communicates the essence of Hyundai Capital’s minimalist, yet forward-thinking brand.

Address: 3 Uisaidang-daero Yeongdeungpo-gu, Seoul, South Korea
Status: Completed, 2016
Size: 580 m²
Type: Workspace

Client: Hyundai Capital **Architect:** Gensler
Lighting Consultant: KGM **Acoustics Consultant:** Veneklasen



LG Science Park Seoul, South Korea

LG Science Park will be the largest research complex in western Seoul and the centre for LG’s next-generation research and development. Working with Korean practices Gansam Architects and Chang-Jo Architecture, London-based HOK designed phase one of the masterplan and six of the laboratory and office buildings. These are linked by a series of gardens and parks and connected to the wider urban realm, and are permeable to the public.

Address: Magok District, Seoul, South Korea
Status: Under construction, due to complete 2017
Size: 743,000 m²
Type: Education, Workspace

Client: LG **Architect:** HOK with Gansam Architects, Chang-Jo Architecture **Structural Engineer:** WSP **Contractor:** WSP, Vanderweil, LG Toyo Engineering



EUROPE

Continental Europe is of course the closest market geographically for London's built environment services, and many companies and practices have made their first steps to wider international work through landmark projects for European clients. Equally important are the strong cultural connections and collaborations made between London professionals and those across the Channel, sustained in particular by the very significant proportion of European nationals working in London offices.



© Michael Nagl

Beletage Neubaugasse Vienna, Austria

This remodelled, extended and furnished 19th-century apartment in Vienna has a deep plan, created by combining two adjacent apartments, unlocked by arranging a series of gently rotated volumes around an existing collection of miniature sculptures and new art pieces. Expertise in public and private housing, exhibitions and expo pavilions, as well as design products and collaborative art projects across Europe and the UK, helped inform the approach.

Address: Neubaugasse 31, A-1070, Vienna, Austria

Status: Completed, August 2015

Size: 240 m²

Type: Domestic refurbishment

Architect: Alex Graef Associated Architects

Consultant Engineer: Hollinsky and Partners **Lighting:** Atrium

Queen Elisabeth Hall Antwerp, Belgium

Embedded within a complex of historic buildings, Queen Elisabeth Hall is an exemplary symphonic concert hall and a new public place for Antwerp. Materials inspired by Antwerp's crafted heritage are used throughout. Art Nouveau facades create new visual connections and provide a historic counterpoint to the auditorium's striking contemporary facade. The shared knowledge and collaborative skills of the London team resulted in a hall with outstanding acoustics that relates physically and economically to its context.

Address: Koningin Astridplein, Antwerp, Belgium

Status: Under construction, due to complete 2017

Size: 28,000 m²

Type: Cultural

Client: Royal Zoological Society of Antwerp and the Royal Flemish Philharmonic KMDA and de Filharmonie

Architect: SimpsonHaugh and Partners **Structural**

Engineer: ABT **Building Services Engineer:** Marcq & Roba **Acoustic Consultant, Executive Architect,**

Cost Manager: Bureau Bouwtechniek



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Port House Antwerp, Belgium

The Port House repurposes a derelict fire station into new headquarters for the port. With references to the River Scheldt, the city of Antwerp and the dynamics of its port, the design is informed by historical research and site analysis. ZHA's experience in activity-based office planning is wholly integrated within the design. Despite the challenges of integrating with a protected historic building, the sustainable and energy-efficient design received a Very Good BREEAM rating.

Address: Zaha Hadid plein 1, 2030 Antwerp, Belgium

Status: Completed, September 2016

Size: 20,800 m²

Type: Office

Client: Antwerp Port Authority **Architect:** Zaha Hadid Architects

Structural Engineer: Studieburo Mouton Bvba **Services**

Engineer: Ingenium Nv **Acoustic Engineer:** Daidalos Peutz

Restoration Origin **Fire Protection:** FPC



© Helen Binet



New Cyprus Archaeological Museum Nicosia, Cyprus

The New Cyprus Archaeological Museum places visitors and staff in close connection with real and ongoing archaeological investigation, serving both to contextualise the artefacts displayed in the collection and to demonstrate how archaeology is a dynamic process. Relocating the museum was a result of Pilbrow & Partners' extensive knowledge of the project which began with an international open competition in 1995.

Address: The Hill of Agios Georgios, Nicosia, Cyprus

Status: Design stage

Size: 19,800 m²

Type: Cultural

Client: Republic of Cyprus, Ministry of Transport, Communications and Works, Public Works Department

Architect: Pilbrow & Partners **Associate Architect:** Kythreotis Architects **Structural Engineer:** AKT II



New Cyprus Museum Nicosia, Cyprus

This cultural hub in Nicosia houses a new archaeological museum and adds public realm to the area. The site’s potential to be a global attraction was explored with Cypriot built environment professionals. Collaboration with London-based consultancy Movement Strategies allowed for advanced mapping and specialist research, establishing a series of connections within the city and with the emerging cultural district to the west.

Address: Nechrou Avenue, 1457 Nicosia, Cyprus
Status: Design stage
Size: 25,000 m²
Type: Cultural

Client: Cyprus Department of Works
Architect: PHASE3 Architecture and Design
Cost Consultant: RISE **People Movement Consultant:** Movement Strategies

The Urban Strategy for Central Nicosia Nicosia, Cyprus

This comprehensive strategy includes a new plan for proactive growth, a new financial approach to incentivise development, three transformational projects and a 16 point action plan for the Mayor. URBAN Silence, a company of urban strategists, developed viable routes to increased prosperity through an integrated programme of planning changes, design and innovation. In addition, and in collaboration with Wagstaffs, a London-based consultancy, a tool was developed to market the new plan.

Address: Cyprus, Nicosia, Central Area and Walled City
Status: Completed, June 2016
Size: 450,000 m²
Type: Urban strategy

Client: Municipality of Nicosia **Lead Masterplanner and 3D Visualisation of Planning:** URBAN Silence **Economic and Planning Strategy:** Glafkos Costantinides **Local Advisors:** RAI 3D **Model Baseline:** The Cyprus Institute **3D Interactive Tool and Marketing Material:** Wagstaffs



Minthis Hills Golf and Country Club Paphos, Cyprus

Minthis Hills is set in an undulating landscape outside Paphos, Cyprus. Since 2006 Woods Bagot has taken a holistic approach to the creation of the project vision. In 2016 the masterplan and villas were revived with new residential types across the development and a new village centre was created. The London studio created the design concept and then passed it on to the local architect, Antreas Ioannou Architects, to deliver.

Address: Paphos 8060, Cyprus
Status: Completed (Phase I) and design stage (Phase II)
Size: 4,860,000 m²
Type: Masterplan

Client: Pafilia Property Developers **Architect:** Woods Bagot
Local Architect: Antreas Ioannou Architects **Structural Engineer:** D&K E.P.S L.L.C.





© Filip Šepal

Extreme Light Infrastructure (ELI) Beamlines Facility Dolní Břežany, Czech Republic

Funded by the European Commission, this international research and technology facility was conceived as a campus within a landscaped setting. Four separate buildings accommodate offices, laboratories, a multi-functional space, and the principal element: a large concrete ‘box’, which houses lasers with intensities ten times higher than those previously achievable. The lasers will be used for research into material sciences and engineering, medicine, biology, chemistry, pharmacy and astrophysics.

Address: Dolní Břežany, Czech Republic
Status: Completed, December 2015
Size: 29,500 m²
Type: Education, Workspace

Client: Institute of Physics, Czech Academy of Sciences
Architect: Bogle Architects **Contractor:** MVO **Civil Engineer:** AED Project **M&E:** PBA International **Structural Engineer:** Nemec Polak **Vibration Analysis:** ARUP **Landscape Consultant:** Gillespies **Lighting consultant:** GiaEQUATION **Quantity Surveyor:** Gleeds

Oaks Prague, Czech Republic

Oaks is a new settlement of 220 homes in a forest setting, conceived as a contemporary reinterpretation of a traditional Czech village. An international team of architects and designers were selected to create a diverse, organic place, carefully co-ordinated through a masterplan framework, pattern book and collaborative workshops. Oaks demonstrates the value of collaboration and collective innovation.

Address: Nebrenice Hunting Lodge, Popovice, Prague South, Czech Republic
Status: Under construction, due to complete 2022
Size: 160,000 m²
Type: Masterplan

Client: Arendon **Masterplanner:** JTP **Executive Architect:** Jakub Cigler Architects, Expert Building Management, Marani Architects **London-based Architect:** JTP, Haptic, Hall McKnight, Duggan Morris Architects, McGarry Moon, John Pawson, John Pardey **Czech-based Architect:** Chapman Taylor, Jakub Cigler Architects, ADR, AI Design, Marani Architects **USA-based Architect:** Richard Meier & Partners, Wolfgang Ludes **Landscape Architect:** EDSA Šmídová Landscape Architects **Design Manager:** Chapman Taylor **Cost Manager:** Gleeds **Glazing Consultant:** MFS Digital

© JTP



Ellebo Garden Room Ballerup, Denmark

Ellebo Garden Room is the renovation and extension of a 1960s estate in Copenhagen. The winner of the Nordic Build Challenge, set up by the five Nordic Countries to prototype sustainable approaches to post-war housing, the project provides affordable high-quality accommodation for families. It employs a radical approach, challenging prevalent models of regeneration. The most profound change is the reorientation of the existing neutral, heliocentric layout towards a vibrant central garden.

Address: Ballerup, Denmark
Status: Under construction, due to complete 2018
Size: 20,000 m²
Type: Housing

Client: Ballerup Ejendomsselskab v/KAB **Design Lead, Main Consultant, Lead Architect:** Adam Khan Architects **Sub-consultant:** Ramboll, Kristine Jensen Tegnestue **Architect (competition):** Daniel Serafimovski Architects **Engineer (competition):** Moe **Structure & Sustainability (competition):** Price & Myers

Cityringen Metro Copenhagen, Denmark

Cityringen is a new ‘circle line’ with 17 new stations running through the historic centre of Copenhagen and linking to the existing city Metro. Characterised overall by a simple, unpretentious and functional style, the architectural treatment of the stations reflects the diversity of their urban locations with visual variations and different cladding materials that relate to the local area. The project involved not only multi-disciplinary teams based in London and Copenhagen, but also the best practice capabilities of Arup globally.

Address: Denmark, Copenhagen
Status: Under construction, due to complete 2019
Size: 1,200 m²
Type: Transport

Client: Metroselskabet **Architect:** Arup Associates, Systra **Engineer:** Arup, COWI, Systra **Landscape Architect:** COWI **Main Contractor:** Atkins, Ramboll JV



Aubervilliers Aubervilliers, France

This low-cost housing development is built from cross-laminated timber (CLT) and incorporates low- and medium-rise blocks. Small ‘pocket parks’ have been carefully designed to provide spaces specifically suited to the future residents and also encourage community life in the whole neighbourhood. Expertise of complex city sites and experience with the huge benefits of building in wood helped create a place that fosters a sense of community.

Address: Rue des Écoles, Aubervilliers, France
Status: Design stage, due to complete 2018
Size: 4,035 m²
Type: Housing

Client: Interconstruction **Architect:** Waugh Thistleton Architects
Structural Engineer, M&E Engineer: S2T **Acoustic Consultant:** Aida **Timber Contractor:** Charpente Houot
Building control: Apave



© Stefano Graziani



Musée d’arts de Nantes Nantes, France

The Musée d’arts de Nantes creates a new cultural quarter for the city, achieved by renovating the former Palais des Beaux-Arts, creating a new extension linking the 19th-century Palais with the 17th-century Oratory Chapel and providing a new sculpture garden. Unique experience in museum and exhibition design allowed the team to challenge out-dated museum requirements for environmental control and informed approaches to complex issues in working with historical buildings.

Address: 10 Rue Georges Clemenceau, 44000 Nantes, France
Status: Under construction, due to complete 2017
Size: 17,000 m²
Type: Cultural

Client: Ville de Nantes and Nantes Métropole **Architect:** Stanton Williams **Contractor:** Bouygues Bâtiment Grand Ouest
Cost Consultant: ARTELIA **Structural & Envelope Engineer:** RFR& SEPIA **Services Engineer:** Max Fordham & GEFI **Fire Safety:** Casso & Associés **Signage and Graphics:** Cartlidge Levene **Approved Inspector & CDM Coordinator:** VERITAS
OPC: E2CT



WINDOW, La Défense Paris, France

This refurbished office at the heart of the La Défense business district reconfigures the original 40,000 sqm building above the Les Quatres Temps shopping centre and incorporates new visitor amenities, including a 250-seat auditorium. The technical challenge of building above the shopping centre required the combined extensive experience of KPF, a local architect and facade engineers.

Address: Voie Perronet Sud, 92800 Puteaux, Paris, France
Status: Under construction, due to complete 2018
Size: 46,410 m²
Type: Office

Client: Groupama **Architect:** Kohn Pedersen Fox **Architect of Record:** Saubot-Rouit Associés
Engineer: Egis **Facade Engineer:** Arcora



American School Of Paris Paris, France

The American School of Paris campus development is an ambitious project that has transformed the school's current site. The design celebrates the wonderful parkland setting at Saint-Cloud, in the western suburbs of Paris, and the buildings and landscape are intended to enrich the learning experience. Extensive consultation with teachers, students and parents informed the positive transformation that supports the school's wider academic vision for 21st-century learning.

Address: 41 Rue Pasteur, Saint-Cloud, Paris, France
Status: Under construction, due to complete 2017
Size: 13,500 m²
Type: Education

Client: American School of Paris **Architect:** BDP



Bercy Charenton Paris, France

Structured by an ambitious public space network, these proposals are part of a strategy that seeks to make Paris greener, to bridge boundaries and to deliver a socially diverse, sustainable quarter. Creating a major urban linkage between the communities of Bercy and Charenton and forming a development vision will transform an industrial landscape into a new and integrated piece of city fabric. RSHP's Anglo-Saxon rigour and engagement in the detailed operational and technical challenges informed a masterplan that engaged positively with the site's constraints as well as its unique qualities.

Address: 12th Arrondissement, Paris, France
Status: Design stage, due to complete 2030
Size: 640,000 m²
Type: Masterplan

Client: Direction De L'urbanisme **Architect:** Rogers Stirk Harbour + Partners **Co-Architect:** Ateliers Jean Nouvel, TVK
Structural Engineer: RFR **Consulting Engineer:** Ingérop
Landscape Architect: Michel Desvignes **Rail Consultant:** AREP **Sustainability Consultant:** Franck Boutté Consultants

Parc du Millénaire Paris, France

Parc du Millénaire provides new office space for the French Ministry of Justice. The design of the buildings wraps a refined adaptive skin around bold sculptural forms, responding to their proximity to the ring road and the nearby Canal Saint-Denis. Having previously completed a number of projects in Paris, KPF has a well-established team dedicated to working in France.

Address: 35 Rue de la Gare, Paris, France
Status: Completed, January 2017
Size: 60,000 m²
Type: Office

Client: Icade Fonciere Tertiaire **Architect:** Kohn Pedersen Fox **Architect of Record:** Saubot-Rouit Associés **Engineer & Facade Engineer:** Arcora





**Deutscher Bundestag
Visitors Centre
Berlin, Germany**

This contemporary pavilion set within a clearing in the Tiergarten is composed of a rotunda and a portico. A rising circular path around the walls of the rotunda’s inner core emerges at the top of the building to form a public space with panoramic views over Platz der Republik and the Reichstag. The combined experience of the team evolved UNIT Architects’ historically contextual concept into a highly co-ordinated and sustainably advanced building for the future.

Address: Platz der Republik 1, 11011 Berlin, Germany
Status: Design stage
Size: 3000 m²
Type: Cultural

Client: Deutscher Bundestag **Architect:** UNIT Architects
Environmental Consultant: Atelier 10 **Fire Strategy:** Arup
Structural and Facade Engineer: Buro Happold Engineering



**Mercedes Platz
Berlin, Germany**

The masterplan for the Berlin Entertainment District surrounding O2 World in Friedrichstein transforms the site with two hotels, numerous restaurants, office space, 12 cinema screens, bowling and a 4,500-seat venue. The district connects O2 World with the East Side Gallery and the river via four main zones, each with a distinct identity and mix of uses. CallisonRTKL engaged with the client’s London and Berlin offices, working closely with the arena operations teams to ensure the proposals worked harmoniously with the existing arena.

Address: Mercedes-Platz 1, 10243 Berlin, Germany
Status: Under construction, due to complete 2018
Size: 75,000 m²
Type: Masterplan

Client: AEG Europe **Architect:** CallisonRTKL **Structural Engineer, Civils & MEP:** Buro Happold



© HG&Sch

**Hyundai Capital Europe
Frankfurt, Germany**

These new headquarters for Hyundai Capital Europe eschew hierarchical separation in favour of free-flowing spaces where finance and creativity coexist. A dramatic spiral staircase provides direct and convenient access to all three floors, serving as a catalyst for collaboration, learning and socialising among employees. The design is deceptively simple and redefines the paradigm of a traditional financial services firm.

Address: Tower 185 Friedrich-Ebert-Anlage 35-37, Frankfurt 60327, Germany
Status: Completed, 2016
Size: 3,414 m²
Type: Workplace

Client: Hyundai Capital **Designer:** Gensler **Structural Engineer:** Arnold AG **Lighting Consultant:** KGM



Cloud Cuckoo House Seebach, Germany

Cloud Cuckoo House sits at 800m above sea level. When fog drifts into the valley, this young family’s home ‘floats’ above the clouds, with a magical view across the fairytale landscape of the Upper-Rhine area. Having delivered a timber Passivhaus project nearby, ÜberRaum Architects had a unique understanding of the region, as well as extensive experience of working with prefabricated timber construction.

Address: Wildenberg15, Seebach 77889, Germany
Status: Completed, 2016
Size: 240 m²
Type: Home

Architect: ÜberRaum Architects **Structural Engineer:** Rheiner & Villingen Partnerschaft **Contractor:** HolzHaus Bonndorf Hegar



Blue Water Development ‘Eastside’ Gibraltar Gibraltar

Residential and commercial uses are combined with the marina in this masterplan for the Mediterranean side of the near vertical face of the Rock of Gibraltar. Three 30-storey residential towers and two hotels sit on two floors of retail and restaurants facing onto the pedestrian boardwalk and waterfront. With extensive experience in masterplanning, HWK Architects employ a comprehensive design process, using BIM technology, allowing for the early integration of structure and services.

Address: Catalan Bay Road, Eastside, Gibraltar
Status: Design stage, due to complete 2022
Size: 149,425 m²
Type: Masterplan

Client: Camoren Holdings & HM Government of Gibraltar
Lead Design Architect and Masterplanner: HWK Architects
Hotel Architect: Purcell Architects **Architect:** GC Architects
Project Manager: Senate Project Services **Political Consultant:** Worth Consulting **Cost Consultant and CDM Coordinator:** Gleeds **Environment Consultant:** Environmental Resource Management **Marina Architect:** Marina Projects **Civil and Structural Engineer:** Dunster Consulting, Belilos **Building Services Engineer:** Crisell Consulting **Fire Strategy Consultant:** International Fire Consultants **Vertical Transportation Consultant:** Movveo **Geotechnical Consultant:** Golder associates

Adare Manor Hotel and Golf Resort Adare, Ireland

As part of the upgrading and expansion works to the hotel and golf club, the biodiversity of the site and landscape character will be improved and key historical views restored towards the 17th century Adare Manor House. The rich ecology of the site has been a key driver in the landscape design process and careful attention was paid to sensitively integrate the proposals within the natural habitat of the estate.

Address: Adare, County Limerick, Ireland
Status: Under construction, due to complete 2017
Size: 3,400,000 m²
Type: Hotel

Client: Adare Manor **Landscape Architect:** Reardon Smith Architects **Engineer:** Punch Engineering
Interior Design: Richmond International



Cherrywood Dublin, Ireland

Within the first phase of this visionary masterplan, a new town centre, series of public squares and residential quarter will be created around Cherrywood light rail stop. Drawing on experience within London’s Build to Rent sector, Levitt Bernstein, working alongside Dunnett Craven on the town centre, has designed the first such homes in Ireland. The approach ensures that this typology works collectively to create active, integrated, well-overlooked streets throughout the neighbourhood.

Address: Cherrywood, Dublin 18, Ireland
Status: Design stage, due to complete 2021
Size: 31,250 m²
Type: Mixed-use

Client: Hines **Architect:** Levitt Bernstein **Masterplanner:** MOLA Architects **Structural and Transport Engineer:** Arup **Landscape Architect:** Gross Max **Retail Architect:** Dunnett Craven **Project Manager:** Virtus **Executive Architect:** O’Mahony Pike **M&E:** OCSC Consultants **Fire consultant:** MJP **Planning:** BMA





NUI Galway Student Housing Galway, Ireland

Adjacent to the existing Corrib Village on the northern edge of the National University of Ireland campus, this new student accommodation is viable, modern, appealing and environmentally friendly. Expertise in designing student accommodation and its associated facilities has been crucial in understanding the fundamental requirements of the brief to develop socially sustainable design within a sensitive context.

Address: Upper Newcastle Road, North Campus National University of Ireland, Galway, Ireland
Status: Under construction, due to complete 2018
Size: 12,522 m²
Type: Student housing

Client: National University of Ireland, Galway **Architect:** Feilden Clegg Bradley Studios, in collaboration with Coady Partnership Architects **Structural Engineer:** Punch Consulting Engineers **M&E Design:** J.V.Tierney & Co. **Project Manager & Cost Consultant:** AECOM **Landscape Architect:** Mitchell Associates **EIA Consultant:** McCarthy Keville O’Sullivan Ltd **Cladding Consultant:** Rheinzink **CDM Coordinator:** OLM Consultancy **Planning consultant:** McCarthy Keville O’Sullivan Ltd **Fire consultant:** JGA fire

National Children’s Hospital Dublin, Ireland

On approaching this new hospital, the first impression will be of a floating garden halfway up the building and a ‘flying carpet’ of trees and plants, surrounding a curvaceous three-storey ward pavilion. BDP’s depth of healthcare expertise, in particular its lineage of buildings for children and young people, won them the project through an international design competition in 2014.

Address: St James’s Hospital, Dublin, Ireland
Status: Under construction, due to complete 2021
Size: 160,000 m²
Type: Health

Client: National Paediatric Hospital Development Board
Masterplanner, Architect, Landscape Architect, Interior Design, Acoustic Consultant, Graphic and Wayfinding: BDP



Cassino “Memory Hole” Cassino, Italy

This project develops the idea of a void in the city’s collective memory through five linked interventions suggesting ways of reconnecting the past, present and future. A detailed understanding of the area’s rich ancient history was gained through exploring the city and surrounding hills. Meetings with local politicians, business leaders, the University of Cassino and local interest groups were organised to better understand the political, cultural and economic context.

Address: Cassino, Lazio, Italy
Status: Design stage
Type: Public realm

Client: Comune di Cassino **Architect:** Paul Murphy Architects
Quantity Surveyor, Structural Engineer: AECOM
Archaeological Consultant: Progetto Suma Ocre **Military History Consultant:** Associazione Linea Gustav

Garage Theatre Monaghan, Ireland

The Garage Theatre consists of a 300-seat flexible auditorium with retractable seating, rehearsal room and generous bar and café areas all linked through a double-height foyer. Its large windows have been positioned to provide views across the surrounding rural landscape and to provide glimpses of activity within the building. With its location on a plinth with twinkling lights and a dramatic stair leading up to its entrance, Hawkins\ Browns’ design has provided the glamour and theatricality that the client had aspired to.

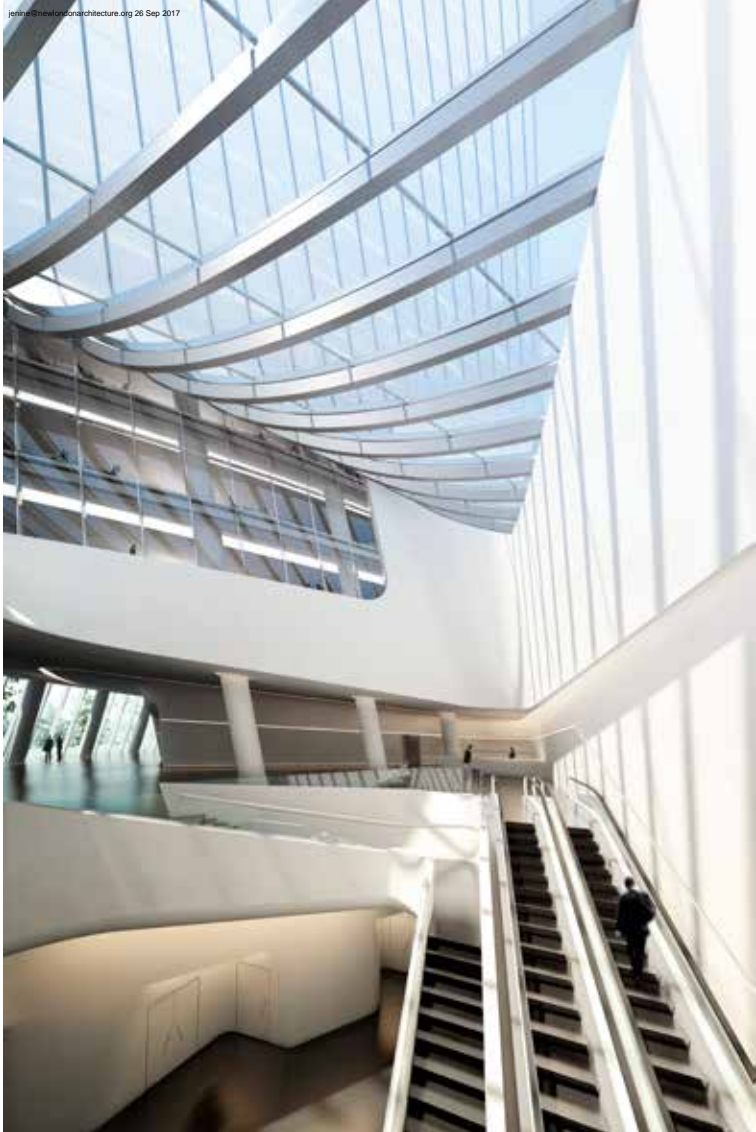
Address: Garage Theatre, Monaghan Education Campus, Armagh Road, Monaghan, Ireland
Status: Completed, August 2012
Size: 7,500 m²
Type: Cultural

Client: Monaghan VEC Lead **Architect:** Hawkins\Brown
Executive Architect: Oppermann Associates **Mechanical & Electrical Consultant:** Varming Consulting Engineers
Structure Engineer & Project Manager: Waterman Moylan Engineering Consultants



© Geray Sweeney





Generali Tower
Milan, Italy

The 44-storey Generali Tower contorts as it rises. This twisting, algorithmically controlled building enables users to enjoy spectacular views from the most opportune place on each storey. Software was specifically developed by the team to control the complex geometry and to gain an understanding of the forces created, and then to experiment with dimensional and structural changes while decisions were being made on materiality and layout.

Address: Piazza Tre Torri, 20145 Milan, Italy
Status: Under construction, due to complete 2017
Size: 67,000 m²
Type: Office

Client: CityLife **Architect:** Zaha Hadid Architects **Structural Engineer:** AKT II, Redesco **MEP Engineer:** Max Fordham

Scali Ferroviari
Milan, Italy

Exploring strategic opportunities for the Scali Ferroviari – seven derelict rail yards in Milan’s city centre – is a first step in their regeneration and in the future planning of wider Milan. The strategic, whole systems approach allowed for the positioning of projects within the context of broader opportunities and advising key stakeholders on possible steps towards implementation.

Address: Milan, Italy
Status: Design stage
Size: 1.2 million m²
Type: Urban strategy

Client: FS Sistemi Urbani **Architect:** DSA Architects **International Technical and strategic advisor:** AECOM **Advisor:** PPAN **Design Consultant:** MECANOO, EMBT Miralles Tagliabue, Cino Zucchi Architects, Mad Architects, Stefano Boeri Architects



Piazza Gae Aulenti
Milan, Italy

Piazza Gae Aulenti is inspired by the traditional piazza yet showcases the potential for digital fabrication in the public realm. The project has two key aims and elements: first to activate the edges of the plaza with a continuous sculptural ribbon ergonomically designed to facilitate seating, and second to animate the centre with a 60m reflecting pool. The London team’s design leadership and technical expertise can be seen on the sculptural seating, which gives an informal feel to the square.

Address: Piazza Gae Aulenti, Milan, Italy
Status: Completed, December 2012
Size: 20,000 m²
Type: Public Realm

Client: COIMA SGR **Architect:** Pelli Clarke Pelli **Landscape Architect:** AECOM **Lighting Design:** Castiglioni **Waste Management:** Montana **Executive Architect:** Adamson Associates **Local Architect:** Tekne **Quantity Surveyor:** J&A **Water Feature:** Wed Fontane **Local Landscape Architect:** Land **MEP Engineering:** Ariatta, Buro Happold **Facade Consultant:** Studio Ingegneria Rigone **Urban Quality:** Gehl Architects **Structural Engineering:** MSC **Fire Protection:** GTP **Traffic Consultants:** ATM



Terni Train Station and Bridge ***Terni, Italy***

This 180m bridge is a new landmark for Terni, linking parking to station improvements and providing a new triple-height clerestory atrium space with integrated 24-hour station concourse improvements. As well as the design skill and commitment of the practice, the multi-cultural make-up of the team proved advantageous when working with the Terni local authority, the practice lead being a first-generation son of Italian immigrants.

Address: Terni, Umbria, Italy
Status: Under construction, due to complete 2017
Size: 180m long, 3.6m wide, 60m high
Type: Infrastructure

Client: Comune Di Terni Direzione Urbanistica Qualita Urabana
Architect: Benedetti Architects **Structural Engineer:** Manfroni Engineering Workshop (MEW), ARUP **Architect Consultant:** Ottone Pignatti Studio Associato **Quantity Surveyor:** Andrea Calo **Contractor:** COBAR Spa.

Boksto 6 ***Vilnius, Lithuania***

This complex has evolved over 500 years and is now designated a UNESCO World Heritage Site. As such, the conservation and restoration concept was crucial. Any new build element had to be a confident and carefully considered insertion into the existing fabric, and where possible historic elements had to be restored and preserved. Thoughtful research into the existing culture of the site and engagement with the local planning authority led to a considered step-by-step approach.

Address: Bokšto g. 6, 01126 Vilnius, Lithuania
Status: Under construction, due to complete 2017
Size: 13,265 m²
Type: Mixed-use

Client: UAB OGYY **Architect:** Studio Seilern Architects **Local Architect:** UAB Archinova LT **Services Engineer:** NIT projektai **Structural Engineer:** Elvora LT **Contractor:** PST



Mriehel Masterplan ***Birkirkara, Malta***

This 80-hectare brownfield site at Mriehel – now officially known as the Central Business District, close to Malta’s capital city of Valletta – is a joint initiative between the government and the private sector forming Mriehel Enterprise Zone Foundation. It aims to attract high value-added investment, benefiting both economic and social development. The Foundation will formulate short, medium and long-term visions emphasising qualities valued by international occupiers that will help maintain a high asset value, while creating an aesthetically pleasing and environmentally sustainable environment.

Address: Mriehel Industrial Estate, Birkirkara, Malta
Status: Under construction, due to complete 2045
Size: 800,000 m²
Type: Masterplan

Client: Simonds Farsons Cisk plc **Architect:** Ian Ritchie Architects Ltd
Structural Engineer: TBA Periti **Real Estate Development Advisor:** Richard Tibbott **Professional Advisor:** Price Waterhouse Coopers **Spatial Planning Consultant:** ERSLI Consultants Limited



Farsons Old Brewhouse and Trident Business Park ***Birkirkara, Malta***

The 1950s Brewhouse is a grade II listed structure and important marker for Malta’s industrial heritage. The new project restores, converts and builds new accommodation for over 2000 people to work and play. The entire project has been designed with building information modelling (BIM) – an excellent collaboration tool to help communication of the project between client, team members, stakeholders, shareholders and the local authority.

Address: The Brewery, Mdina Road, Mriehel, Birkirkara, Malta
Status: Under construction, due to complete 2019
Size: 26,300 m²
Type: Workplace

Client: Simonds Farsons Cisk plc **Architect:** Ian Ritchie Architects Ltd **Structural Engineer:** TBA Periti **Energy, Environment & Sustainability Consultant:** Doug King Consulting **Exhibition Designer & Heritage Consultant:** The Exhibitions Team **Acoustic Consultant:** Gillieron Scott **Acoustic Design Lighting Consultant:** Ulrike Brandi Licht **Services Engineer:** CASAinginiera **Landscaping:** Joseph **Quantity Surveyor:** Equals



Lido Mar Tivat, Montenegro

The Lido Mar utilises a Yugoslavian submarine dock as the platform for a centrepiece to the Porto Montenegro Marina on the Adriatic coast, comprising the pool, bronze frame and sculpted volumes. The project was delivered as the flagship facility for the ongoing development of Porto Montenegro with Studio RHE's London team using 3D-modelling software and steel technology to create complex roof forms which define the aesthetic.

Address: Tivat, Montenegro
Status: Completed, February 2012
Size: 2,500 m²
Type: Leisure

Client: Portomontenegro (MNE) **Architect:** Studio RHE **Structural Engineer:** Glanville Consultants **M&E Engineer:** Curona Design **Swimming Pool Specialist Designer:** Aquascapes **Steel frame design and construction:** Reid Steel



Porto Montenegro Tivat, Montenegro

The masterplan for Porto Montenegro has created a new marina village with residential, hotel and leisure facilities. Increased pedestrian permeability throughout the site, with enlivened new waterside promenades, streets and squares, helps repair connections to Tivat town centre. The London-based team worked carefully with the microclimate of the site, placing soft landscape interventions to provide shade during the hot summers and shelter during the wet winters.

Address: Tivat, Montenegro
Status: Completed, June 2015
Size: 220,000 m²
Type: Masterplan

Client: Adriatic Marinas D.o.o **Landscape Architect:** ReardonSmith Architects **Engineer:** Archipro Belgrade



Porto Montenegro Masterplan and Regent Residences Tivat, Montenegro

The architecture of Porto Montenegro Masterplan and Regent Residences takes inspiration from Boka Bay's 400-year history, combining the historical Montenegrin vernacular with modern style to create sleek, elegant residences and landscaping. WATG's London office offered architecture, masterplanning, landscape, strategy and interior design services to the project.

Address: Tivat, Montenegro
Status: Phases at different stages of construction
Size: 280,000 m²
Type: Masterplan

Client: Adriatic Marinas **Architect, Master Planner, Landscape Design:** WATG **Interior Design:** MHZ **Lighting Designers:** Visual Energy



Booking.com Piet Hein Amsterdam, Netherlands

After the growth of its business, Booking.com acquired a new building in the Piet Hein district. HLW, who have worked with the firm in various global locations, partnered with local architect Fokkema and Partners to deliver this new home for their employees. A combination of global knowledge and deep understanding of local requirements and culture provided a user-centric workplace that reflects Booking.com’s core values and importantly celebrates travel.

Address: Piet Hein Building, Amsterdam, Netherlands
Status: Completed, December 2016
Size: 14,435 m²
Type: Workspace

Client: Booking.com **Architect:** HLW International, Fokkema and Partners
Mechanical Consultant: Ingenieurs Bureau Knipscheer

DoubleTree by Hilton Amsterdam Amsterdam, Netherlands

Bennetts Associates’ first project outside the UK is the setting for a dramatic fusion of the angles and radial incisions demanded by Erik van Egeraat Associates’ masterplan with the rational planning and construction required of a 553-bedroom hotel. The hotel is arranged around a courtyard, with two public floors below six to nine stepped levels of bedroom accommodation. This is the third major hotel completed by Bennetts Associates for the Mint Hotel Group.

Address: Oosterdoksstraat 4, 1011 DK Amsterdam, Netherlands
Status: Completed, 2012
Size: 28,000 m²
Type: Hotel

Client: Urbanist Hotels (formerly Mint Hotel Group) **Architect:** Bennetts Associates **Executive Architect:** BDG Architecten **Interior Design Architect:** M+R Interieurarchitecten, Bennetts Associates **Masterplan Architect:** Erik van Egeraat Associates **Building Contractor:** Strukton Civiel Projecten **Structural Engineer and Project Manager:** Arcadis **Services Engineer:** AECOM, Deerns **Landscape Architect:** Jenkins+Clarke, Niek Roozen **Fire and Acoustic Engineer:** Peutz **Cost consultant:** Arcadis PRC **Developer:** MAB **Development Site management:** Grontmij



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University of Amsterdam Amsterdam, Netherlands

Two utilitarian buildings – part of an incomplete masterplan by Norbert Gawronski – are stripped out, sliced open, reconfigured and knitted back into the city’s fabric to regenerate a post-war university campus. With extensive inner-city projects experience, AHMM devised a strategic vision to repair and renew Gawronski’s campus masterplan. Intelligent and sympathetic background architecture is favoured over idiosyncratic dominance in the low-rise historic context.

Address: Roeterseiland Complex, Nieuwe Achtergracht, 1018 Amsterdam, Netherlands
Status: Completed, April 2014
Size: 67,950 m²
Type: Education

Client: University of Amsterdam **Architect:** Allford Hall Monaghan Morris **Sub-consultant Architect:** ZZDP Architecten **Structural Engineer:** Pieter Bouwtechniek **Main Contractor:** BAM **M&E Consultant:** Ingenieursburo Linssen B.V **Landscape Architect:** Inside Outside **Quantity Surveyor and Project Manager:** Royal Haskoning DHV **Building Physics:** Lichtveld Buis & Partners **Graphic Design:** Hat-trick Design **Facade Engineer:** IBS Consultants bv



100 Resilient Cities Rotterdam, Netherlands

The 100 Resilient Cities programme, led by AECOM, supports cities to govern investment in physical improvements that deliver a more sustainable, resilient and intelligent urban environment. An 18-month process develops an action-orientated strategy document setting out projects, programmes and initiatives that can help build resilience to shocks (i.e. earthquakes) and the stresses that weaken the fabric of a city on a day to day or cyclical basis. AECOM challenged Rotterdam to consider a broader definition of resilience, for example automated flood defences that are cyber-secure.

Address: Rotterdam, Netherlands
Status: Completed, April 2016
Size: 320 million m²
Type: Resilience Strategy

Client: City of Rotterdam and 100 Resilient Cities
Strategy Partner: AECOM **Other Partner:** Drift





Oslo Gardermoen Airport Gardermoen, Norway

The expansion of Oslo Airport consisted of a second terminal building and a new pier, boasting one of the largest timber roofs in the world, with a new roof also introduced over the railway station to connect both terminal blocks. London practice AKT II worked closely with Nordic, who have offices in Oslo and London, to develop the roof and facade structures, using parametric models to inform and explore the design.

Address: Edvard Munchs veg, 2061 Gardermoen, Norway

Status: Under construction, due to complete 2017

Size: 140,000 m²

Type:Transport

Client: Oslo Lufthavn **Architect:** Nordic – Office of Architecture, Haptic **Structural Engineer:** AKT II, Aas Jakobsen



Paleiskwartier 's-Hertogenbosch, Netherlands

Paleiskwartier transforms a 40-hectare industrial zone by the interlocking of work, living and learning, linking the old and new town together around an international transport link. At the heart of the masterplan is Armada housing. Voted their favourite building by the Dutch public, Armada is set around a central water space that acts as a solar collector throughout the day and a skating rink in winter. Designed around sustainable principles of low-energy use, microclimate and social behaviour, Armada won a BEX award for International Regeneration.

Address: Hugo de Grootlaan 82, 5223 LC

's-Hertogenbosch, Netherlands

Status: Phases at different stages of construction

Size: 205,500 m² residential, 179,500 m² workplace, 37,600 m² retail

Type: Masterplan

Client: Paleiskwartier B.V **Masterplanner, Architect & Landscape Architect:** BDP



Bergen Airport Bergen, Norway

The new terminal at Bergen Airport houses waiting lounges, retail units, check-in facilities, baggage and goods handling, and office facilities, as well as a fully integrated light rail service. The focus of the compact, easily navigable and expandable terminal is on sustainable solutions and cost-driven design. Nordic approached London practice AKT II to assist in the engineering of the roof structures following the success of the relationship developed on the much larger Oslo Gardermoen Airport.

Address: Flyplassvegen 555, 5258 Bergen, Norway
Status: Under construction, due to complete 2017
Size: 65.000 m² (new build), 20.000 m² (rebuild)
Type: Transport

Client: Avinor **Architect:** Nordic – Office of Architecture
Engineer: AKT II, COWI, Norconsult, Aas-Jacobsen, Hjøllnes Consult **Landscape Architect:** Bjørbekk & Lindheim



Barcelona Arena Barcelon, Spain

The New Palau Blaugrana is a new multi-purpose arena for FC Barcelona. Its organic building geometry supports a seamless progression between the New Palau, the annex court, the ice rink and the FCB Escola academy training facilities. Using state-of-the-art, customised digital tools, the designers calibrated the venue and bowl geometries to achieve optimal results for the viewing quality, shape and dimensions of the event spaces.

Address: Camp Nou, Avenida de Joan XXIII, 08028 Barcelona, Spain
Status: Under construction, due to complete 2019
Size: 12,500 seater capacity
Type: Sport

Client: FC Barcelona **Architect:** HOK **Local Architect:** TAC Architects



Belgrade Waterfront Belgrade, Serbia

A landmark development designed to be globally recognised as a symbol of Serbia’s bold vision for its future, Belgrade Waterfront is the country’s first truly integrated masterplan development, containing a balanced mix of uses, including residential, offices, hotels, cultural venues, educational institutions, healthcare and leisure facilities. CallisonRTKL London’s extensive experience on mixed-use waterfront regeneration, including the Baltimore Inner Harbour, Millbay (Plymouth) and La Coruna Waterfront (Spain), helped inform the design.

Address: Karadjordjeva 48, Belgrade 11000, Serbia
Status: Under construction, due to complete 2019
Size: 1 million m²
Type: Masterplan

Client: Eagle Hills **Masterplanner:** CallisonRTKL London **Landscape Architect:** SWA **Infrastructure Engineer:** Buro Happold **Water and Flood Risk:** Arcadis **Traffic & Transportation:** COWI





Carrer Avinyó Barcelona, Spain

Carrer Avinyó is the refurbishment of a *piano nobile* apartment in an historic building in Barcelona's Gothic Quarter. The wedge-shaped building stands on a prominent corner site adjacent to the triangular public space, Plaça George Orwell. All of the accommodation – bedrooms, kitchen, storage – was incorporated into a large piece of furniture made of scaled-down local monuments that wraps around the interior. Local commentators welcomed the project as being both highly Catalan in feel but with a British twist.

Address: Barrio Gotico, Barcelona, Spain

Status: Completed, May 2012

Size: 118 m²

Type: Home

Architect: David Kohn Architects **Local Architect:** Ángel

Martín Cojo Arquitecto **Structural Engineer:** Area 5

Main Contractor: Brick Serveis D'interiorisme

Juice Rodriguez Barcelona, Spain

Juice Rodriguez is a cosmopolitan new juice bar and café located in the heart of Barcelona. Responding to the brief and interpreting the graphic logo, PHASE3 applied contemporary construction techniques to simple materials. Links with the Architectural Association led to collaboration with the prototyping lab at the IAAC Barcelona. Locally developed digital prototypes and manufacturing techniques were rapidly translated by the manufacturers in Barcelona who CNC-fabricated wall panels and furniture.

Address: Carrer de Provença, 179, 08036 Barcelona, Spain

Status: Completed, May 2014

Size: 70 m²

Type: Retail

Client: Juice Rodriguez **Architect:** PHASE3 Architecture and Design **Graphic Design:** Ana Clapés **Digital Fabrication:** Fab Lab Barcelona



WPP Campus Madrid, Spain

Creating a new, modern, dynamic workplace for WPP, a world leader in advertising and market services, this project involves a full strip out of an outdated building in the city centre. The building allows public access and creates an environment that aims to be sustainable in use. A multidisciplinary team of experts, including audiovisual and intelligent building engineers, collaborated between London and Madrid.

Address: Media House, Calle de Ríos Rosas, 26,

28003 Madrid, Spain

Status: Design stage, due to complete 2018

Size: 35,000 m²

Type: Workspace

Client: WPP **Architect:** BDG architecture + design, B720

Structural Engineer: BAC Engineering Consultancy Group

M&E Consultant: Hoare Lea, FSL Ingenieros **Project**

Manager & Cost Consultant: Colliers, Gleeds **Facade**

Design: Arup

© AsymetricaAndBDG



Park Hyatt, Cap Vermell Mallorca, Spain

The Park Hyatt Mallorca is a new luxury resort set within the Cap Vermell Estate. Marrying the built environment with the natural flora and vegetation of the island, the space showcases local and agricultural planting. The specialist team understood the importance of creating a sense of place, by merging boundaries so that guests perceive the private outdoor areas outside their rooms as an extension of the interior.

Address: Urbanización Atalaya de Canyamel Vial A, 12

07589 Capdepera Canyamel, Islas Baleares, Spain

Status: Completed, May 2016

Size: 50,000 m²

Type: Masterplan

Client: Vermell Residences & Development

SLU **Architect:** DSA Architects International

Masterplanner, Landscape Architect & Cost

Manager: AECOM **Project Manager:** Cushman &

Wakefield LLP **Interior Designer:** Michelle Evans and Associates



Backaplan Masterplan Gothenburg, Sweden

BDP was commissioned by a consortium of landowners and developers in Gothenburg to prepare a long-term masterplan for 38 hectares of land in Backaplan, an area to the north of the River Göta and destined to become the city centre for the island of Hisingen. The UK design team developed an urban neighbourhood-scale sustainability strategy, using centralised community hubs and energy centres integrated with car storage and leisure facilities, to enable a walkable and pedestrian dominated public realm, connected to the new street-based commercial retail and office core and to the integrated transport and cultural hubs.

Address: Hisingen, Gothenburg, Sweden
Status: Design stage
Size: 380,000 m²
Type: Masterplan

Client: KF Fastigheter **Architect & Masterplanner:** BDP



Karlatornet Gothenburg, Sweden

Offering a variety of apartment types, including single-story flats, loft-style apartments, and duplexes, Karlatornet will be the tallest building in Scandinavia. The tower design is complemented by a sustainable masterplan for the entire area, creating a new mixed-use district of 143,000 sqm, including a range of retail, food, and beverage opportunities. Bringing high rise design and construction principles to a low rise market required SOM's team to understand local methods and local supply chain to meet the challenges of the typology.

Address: Karlastaden, Gothenburg, Sweden
Status: Design stage, due to complete 2021
Size: 143,000 m²
Type: Housing and hospitality

Client: Serneke AB **Architect, Structural Engineer:** Skidmore, Owings & Merrill Inc. **MEP Engineer:** Bengt Dahlgren
Electrical Engineer & Lighting Designer: Rejlers **Local Architect:** Semrén & Månsson **Residential Architect:** KUB Arkitekter, AML Arkitekter **Local Structural Engineer:** VBK Konsulterande Ingenjörer AB **Fire strategy:** FSD **Vertical Transportation:** Sweco, Håkan Gummesson Hisskonsult AB **Traffic & Geotechnical Consultant:** Norconsult **Wind Engineer:** BMT Fluid Mechanics, Peutz **Facade Access:** REE



Gütsch Restaurant Andermatt, Switzerland

Located on a mountain-top, the Gütsch Restaurant will be the heart of the Andermatt ski region in the Swiss Alps, catering to both the aesthetic and climatic challenges of a unique site. Responding to the dramatic setting of the Swiss landscape, this robust landmark will deliver wide openings, offering panoramic views over the valley, with large south-facing terraces creating an interplay between the lightness of timber and the heaviness of stone.

Address: Andermatt, Switzerland
Status: Design stage, due to complete 2019
Size: 900 m²
Type: Restaurant

Architect: Studio Seilern Architects **Local Architect:** Siebzehn13

Geneva Airport Aile Est Geneva, Switzerland

Geneva Airport Aile Est (East Pier) will serve medium and long haul flights, improving passenger comfort, increasing efficiency and helping to strengthen the airport's position in Central Europe. The project consists of six contact stands, four of which are 'MARS' (Multiple Apron Ramp System) gates which can serve two aircraft simultaneously. The project is based on a collaborative approach with consultants forming the RBIT consortium being based primarily in three countries: the UK, France and Switzerland.

Address: Geneva International Airport, 1218 Grand-Saconnex, Geneva, Switzerland
Status: Under Construction, due to complete 2020
Size: 40,000 m²
Type: Transport

Client: Pool RSHP BUGNA INGEROP **Architect:** Rogers Stirk Harbour + Partners **Co-Architect:** Atelier Jacques Bugna SA **Structural Engineer:** Ingérop and TIngénierie SA **Services Engineer:** Ingerop **Facade Engineer:** Arcora **Public Address Consultant:** Bien Entendu **Acoustic Consultant:** Architecture & Acoustique SA **Wayfinding Consultant:** Mijksenaar Wayfinding Experts **Lighting Consultant:** Speirs + Major





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Pasifik Ciftay EGO Ankara, Turkey

Pasifik Ciftay is a new development in central Ankara, comprising commercial, residential, and governmental uses set in a distinctive urban landscape. The masterplanned site incorporates an elevated walkway that will connect the new community to the park and surrounding neighbourhoods. A combination of custom software developed in London and the design team's proficiency in parametric modelling applications provided a highly flexible and customisable model of the building's overall form to assist the design.

Address: Hipodrum Caddesi, No. 85, Gazi Mahallesi, Ankara, Turkey

Status: Design stage, due to complete 2018

Size: 1.2 million m²

Type: Masterplan

Client: Pasifik Ciftay **Architect:** Kohn Pedersen Fox



United Nations Office at Geneva – Strategic Heritage Plan Geneva, Switzerland

Renovating the 1938 Palais des Nations complex for the United Nations Office at Geneva, this new administrative building will create an additional area of 24,000 sqm, including open-plan workspaces to accommodate 1,400 new workstations, and private outdoor space on every floor. A hybrid system of concrete and timber ensures the building sustainable standards, while SOM's interior designers have devised a unique modular workplace strategy, combining an open-plan office environment with adaptable support spaces that cater for multiple work styles.

Address: Palais des Nations, Geneva, Switzerland

Status: Design stage, due to complete 2023

Size: 194,000 m²

Type: Civic & Government

Client: United Nations Office at Geneva **Architect:** Skidmore, Owings & Merrill Inc. / Burckhardt+Partner (JV) **Interior Designer:** Skidmore, Owings & Merrill Inc. **Structural Engineer:** Skidmore, Owings & Merrill Inc./ Ingeni



Airport City Istanbul, Turkey

Creating a connected urban district, Airport City provides an interface between the airport and the city designed to support smart growth and economic viability. Preserving and embracing the adjacent forest, Perkins+Will's design respects and expresses the invisible patterns created by the flight paths as a sequence of landscape and development zones. This pattern, visible by air and experienced on the ground, becomes a distinct feature of Istanbul's New Airport, setting up a framework for initial development as well as a park of reforestation and temporary landscapes.

Address: Istanbul, Turkey

Status: Design stage

Size: 10.5 million m²

Type: Mixed-use

Masterplanner: Perkins+Will **Sustainability Consultant and M&E Infrastructure Strategy:** Elementa Consulting **Transportation Consultant:** Mobility in Chain **Engineering Consultant:** Langan



Büyükyali Istanbul, Turkey

This masterplan for a complex urban community takes inspiration from the richly textured city of Istanbul, layering a broad range of uses and facilities, creating streets, squares, passageways, gardens and courtyards framed by contrasting contemporary and traditional architecture. Chapman Taylor's London team drew on a wealth of experience in designing large-scale masterplans across the world as well as an understanding of Istanbul's rich urban environment which informed the mix of uses, and careful palette of colour and materials.

Address: Kazlıçeşme, Istanbul, Turkey

Status: Under construction, due to complete 2019

Size: 340,000 m²

Type: Masterplan

Client: ÖZAK GYO, Yenigün Insaat, Ziyilan Gayrimenkul

partnership **Lead Architect:** Chapman Taylor **Local Architect:**

Mar mimarlik **Landscape Designer:** David O'Brien/Spacecoop

Project Management: INTER YAPI **Structural Consultant:** Emir

Mühendislik and Balkar inaat Mühendislik **Traffic Consultant:**

Bogazici Proje **Mechanical Consultant:** Tanriöver Mühendislik

Electrical Consultant: Enmar Mühendislik



Air Traffic Control Tower and Technical Building Istanbul, Turkey

The Air Traffic Control Tower will be a new signature and visual reference point for all passengers flying in and out of Istanbul New Airport. The tower's shape is inspired by the tulip, which has been the symbol of Istanbul for centuries. The truly multidisciplinary approach from AECOM together with input from Pininfarina architects creates an innovative landmark drawing on experience from various AECOM aviation projects around the world.

Address: Istanbul New Airport, Istanbul, Turkey

Status: Under construction, due to complete July 2019

Size: 7,000 m²

Type: Transport

Client: IGA Istanbul **Architectural and Visual Concept:**

Pininfarina **Architect, Engineering, Structural and**

Sustainability Concept: AECOM

NidaKule Atasehir Kuzey, Guney & Bati Istanbul, Turkey

The 165,000 square metres development, located on the Anatolian side of Istanbul, consists of three Class A office buildings, NidaKule Atasehir Kuzey, Guney and Bati, occupying an important plateau overlooking the surrounding district and highways. The London team addressed the difficult combination of towers and podiums with a unifying module and rhythm, and provided design direction for the facade treatments, particularly the glass fin feature forming the beacon to the taller Kusey building.

Address: Atasehir district, Istanbul, Turkey

Status: Phases at different stages of construction

Size: 155,000 m²

Type: Office

Client: Tahincioglu Gayrimenkul / NIDA Insaat **Architect:** Swanke

Hayden Connell Mimarlik A.S **London Architect:** Aukett Swanke

Interior Designer: Swanke Haydne Connell Mimarlik A.S





Halic Port Masterplan Istanbul, Turkey

Located along the Golden Horn at the heart of Istanbul's vast metropolitan area, the Halic Port Masterplan forms a new series of waterfront villages retaining historic buildings and machinery, while creating new structures and open spaces. Inspired by Istanbul's historical waterfront villages, Perkins + Will created a masterplan vision establishing five urban centres, each with its own distinct identity and unique set of uses and amenities.

Address: Istanbul, Turkey

Status: Design stage

Type: Masterplan

Masterplanner: Perkins+Will **Transport:** Mobility in Chain



Istanbul New Airport Istanbul, Turkey

When completed, the terminal building at Istanbul New Airport will be the largest single terminal in the world, with a floor area of 1.3 million sqm and an initial capacity of 90 million passengers per year. Phase 1 includes the terminal, three runways and substantial aviation-related development. Scott Brownrigg's London team led the design management, establishing project procedures including information and change management, the coordination of the design programme, and facilitating all coordination and progress review workshops.

Address: Imrahor Mahallesi, No:255, Ulubatlı Hasan Cd., 34283 Tayakadın/Arnavutköy/Istanbul, Turkey

Status: Under construction, due to complete 2018

Size: 1.3 million m²

Type: Infrastructure

Client: IGA **Lead Architect and Interior Designer:** Scott Brownrigg **Concept Architect:** Grimshaw, Nordic, Haptic **Local Architect:** Fonksiyon Mimarlik, TAM Kiklop **Landscape Designer:** DS Mimarlik



Ziraat Bank Headquarters Istanbul, Turkey

Located in western Atasehir, the Ziraat Bank Headquarters is part of the emerging Istanbul International Financial Centre. The building is formed of two curved towers, rising to 40 and 46 storeys, linked by a podium and eight-storey atrium. Working with KKS, KPF’s London design team brought a wealth of experience and understanding of large financial organisations to the strategic design, creating an iconic building with an interior that reflected the bank’s aspirations and vision.

Address: 3320, Küçükbakkalköy, Fatih, Istanbul, Turkey
Status: Under construction, due to complete 2019
Size: 353,000 m²
Type: Office

Client: Ziraat Bank **Architect:** Kohn Pedersen Fox **Architect of Record:** A Tasarim Mimarlik **Interior Designer:** KKS Strategy **Engineer:** Arup



Cengiz HQ Istanbul and Cengiz Offices Konya Istanbul and Konya, Turkey

The Cengiz Holding HQ building in Istanbul and the more recent offices in Konya respect the history of this company, while creating a unique contemporary environment for visitors. The London design team brought best practice standards for office design, clear span structures for flexibility, new ideas for the workplace environment and sustainable design fully integrated with the architecture, delivering a calm, modern and well-proportioned scheme.

Address: Altunizade district, Istanbul and Seydisehir district, Konya, Turkey
Status: Under construction, due to complete 2017
Size: 18,500 m²
Type: Office

Client: Cengiz Holding **Architect & Interior Designer:** Swanke Hayden Connell Mimarlik A.S **London Architect:** Aukett Swanke **Structural Engineer:** Ontu Mimarlik / Alper Acer Muhendislik **MEP Engineer:** Optimum Elektrik & 3L Mekanik / Elin & 3L Mekanik



Ferrexpo Yeristovo Mine Komsomolsk, Ukraine

Challenged to create a unique and extraordinary landscape, this project seeks to transform the function, ecology and appearance of the site as a showcase world class mining operation. Utilising excavated mine waste, land modelling and local expertise, the London-based practice have developed a sculpted topography providing habitats for native flora and fauna as well as leisure and amenity space for the community.

Address: Komsomolsk, Poltava Region, Ukraine

Status: Under construction

Size: 1.8 million m²

Type: Infrastructure

Client: Ferrexpo plc **Landscape Architect:** Spacehub

Ecologist: Fieldfare Ecological Development plc **Soil**

Scientist: Tim O'Hare Associates



© Picture Plane



MIDDLE EAST

Signature modernist projects in Middle Eastern cities contributed greatly to building the reputation of London's built environment industries abroad after World War II. As these cities mature, they are looking to international models of sustainable urban development. Here London teams are able to bring considerable experience of urban masterplanning and integrating contemporary development into historic urban fabrics while also understanding local cultural and environment conditions.

The Shelter for Victims of Domestic Violence Tel Aviv, Israel

Commissioned by a charity as a shelter for women and children suffering domestic abuse, this scheme creates a sense of home and security with two facades: the protective external facade, and the internal facade which contains the therapeutic 'heart' of the shelter. It will be named 'The Ada and Tamar De Shalit House', in memory of architect Amos Goldreich's mother and grandmother.

Address: Tel Aviv, Israel

Status: Under construction, due to complete 2017

Size: 850 m²

Type: Refuge housing

Client: No to Violence **Architect:** Amos Goldreich Architecture and Jacobs Yaniv Architect **Structural Engineer, Project Manager & Contractor:** M.Barnea Engineering & Buildings Ltd



National Science Laboratories, The Royal Scientific Society of Jordan Al-Jubaiha, Jordan

Launched in April 2007, this scheme aims to enable Arab scientists, researchers, academics, entrepreneurs and students to promote knowledge-based development through education, research and innovation. Building on masterplanning carried out by Arup in 2012, UK and international experience in sustainability, higher education buildings and laboratory design are being translated into the local climatic and cultural conditions of Amman.

Address: Al-Jubaiha, Amman, Hashemite Kingdom of Jordan

Status: Design stage, due to complete 2019

Size: 8,000 m²

Type: Education

Client: The Royal Scientific Society of Jordan **Architect:** Feilden Clegg Bradley Studios **Landscape Architect:** Churchman Landscape Architects **M&E and Structural Engineer:** Buro Happold





Amal Masterplan Kuwait City, Kuwait

This masterplan was designed as a new prototype in the face of increased housing demand for the growing middle class of Kuwait, while focusing on the needs of the inhabitants beyond the living quarters, and incorporating existing infrastructure and public life. Green spaces running through the entire site bring the whole neighbourhood together as one cohesive unit. Previous works in the Middle-East brought unique architectural expertise into the project commissioned by a London-based, globally operating developer.

Address: South Khaitan, Kuwait City, Kuwait
Status: Design stage
Size: 1.6 million m²
Type: Masterplan

Client: National Bank of Kuwait **Architect:** PHASE3 Architecture and Design



Sabah Al Ahmad Cultural Centre Sabah Al Ahmad, Kuwait

Produced in collaboration with local Kuwaiti design consultants PACE (Pan Arab Consulting Engineers), this new centre provides state-of-the-art facilities and an inspirational home for a wide range of cultural activities, acting as a focal point for the new Sabah Al Ahmad City. The promotion of the arts and literature symbolises not just a local but also a national rebirth in a true cultural oasis in the desert.

Address: Sabah Al Ahmad, Kuwait
Status: Completed, April 2016
Size: 56,000 m²
Type: Cultural

Client: Public Authority of Housing Welfare & National Council of Culture, Arts and Letters
Architect, C&S Engineer, Building Services Engineer, Landscape Architect, Interior Design, Lighting Design: BDP



The Avenues Phase III Kuwait City, Kuwait

The fourth phase of the expansion of The Avenues Mall is the latest evolution of the one of the most successful retail centres in the region. It introduces seven new retail districts and a transparent roof connects it to the outdoors and Kuwait's sunlit climate. The scheme is as much about placemaking as it is about retail design. The design team studied iconic global retail settings to define a new contemporary high-end retail destination.

Address: The Avenues, Al-Rai 5th Ring Road, Kuwait City, Kuwait
Status: Under construction, due to complete 2017
Size: 222,000 m²
Type: Retail

Client: M.H. Alshaya Co. W.L.L. **Architect:** Gensler
Structural Engineer: Pan Arab Consulting Engineers (PACE)

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BankMed Beirut, Lebanon

Part of the city’s ambitious programme for reconstructing downtown Beirut’s Central Business District, this new HQ will reflect a corporate image as well as a national identity. Three pavilions of differing heights will be linked by an internal courtyard and feature unique patterned facades responding to the sun’s path through the sky. John Robertson Architects used their expertise of corporate design and space planning in conjunction with the context of Beirut’s history, culture and climate.

Address: Clemenceau, Beirut, Lebanon
Status: Under construction, due to complete 2018
Size: 270,000 m²
Type: Workspace

Architect: John Robertson Architects **Executive Architect, Structural Engineer, Executive Engineer:** Samir Khairallah & Partners **Services Engineer:** Oger International and Barbanel Middle East S.A.L **Fire Engineer:** Apave **Landscape Designer:** Imad Gemayel Architects **Traffic Consultant:** Sets **Kitchen Consultant:** Solarco



District//S Beirut, Lebanon

This new development of 22 buildings, clad in stone, at the edge of Beirut’s historic city centre incorporates tall, oversized timber shutters – a contemporary response to a traditional Lebanese typology. A complex layering of outdoor spaces blurs boundaries with indoor spaces. Experience of designing well-crafted, buildable high-density masterplans and residential schemes in London’s historic context helped in preparations for this commission.

Address: Saifi North, Beirut, Lebanon
Status: Under construction, due to complete 2018
Size: 42,000 m²
Type: Mixed-use

Client: Estates Development SAL **Architect and Masterplanner:** Allies and Morrison **Executive Architect:** R&K Architects and Consulting Engineers **Structural Engineer:** Rafik El Khoury and Partners **Services Engineer:** Fourad Hanna **Lighting Consultant:** Speirs + Major

British School Muscat Muscat, Oman

Providing new facilities for this school, maximising the use of its steeply sloping site and preparing for an increased number of students, the scheme allows the school to grow and improve not only the breadth of subjects offered but also its amenities. Jestico + Whiles’ international education expertise was instrumental in the development of the masterplan, which improves the legibility of the site aiming to enhance the academic record, which the school felt being let down by dated facilities.

Address: 1949 Way, Madinat As Sultan Qaboos, Muscat, Sultanate of Oman
Status: Phases at different stages of construction
Size: 36,500 m²
Type: Education

Client: British School Muscat **Architect:** Jestico + Whiles **Local Architect:** Huckle and Partners LLC **Project Manager:** Turner & Townsend **Quantity Surveyor:** Majan Engineering Consultants **Structural Engineer:** JPG Group **Fire Engineer:** Tenable **M&E:** STI Engineering **Contractor:** Douglas OHI, Target LLC



National Bank of Oman – Head Office Muscat, Oman

This contemporary HQ sits opposite the Grand Mosque, with a striking internal atrium inspired by Oman’s dramatic desert gorges. The London team developed a new interpretation of Omani architecture in a context where most buildings are relatively conservative, and introduced British Council for Offices standards with the ambition of being the best private-sector development in Oman. The scheme combines traditional techniques and influences with new methods and technologies developed in London.

Address: Sultan Qaboos Street, Muscat, Sultanate of Oman
Status: Under construction, due to complete 2017
Size: 50,000 m²
Type: Workspace, retail

Client: National Bank of Oman **Architect:** LOM architecture and design **Local Architect:** Ibrahim Jaidah Architects & Engineers **Multidisciplinary Engineer:** Buro Happold **Landscape Architect:** Murray Associates **Lighting Designer:** Lightivity **Quantity Surveyor:** Daan Shaaban Office **Main Contractor:** Al Turki Enterprises





Madinat al Irfan Muscat, Oman

This masterplan draws inspiration from the local vernacular and is structured around an existing wadi (valley), which is transformed into a productive city park. It lowers carbon emissions, promotes social cohesion and creates real value for residents and investors alike, providing an international model for future sustainable urban development. Being a landscaped masterplan, it bears similarities to the London team’s work on the Queen Elizabeth Olympic Park and was also inspired by London’s great estates.

Address: Muscat, Sultanate of Oman
Status: Under construction
Size: 6.2 million m²
Type: Masterplan

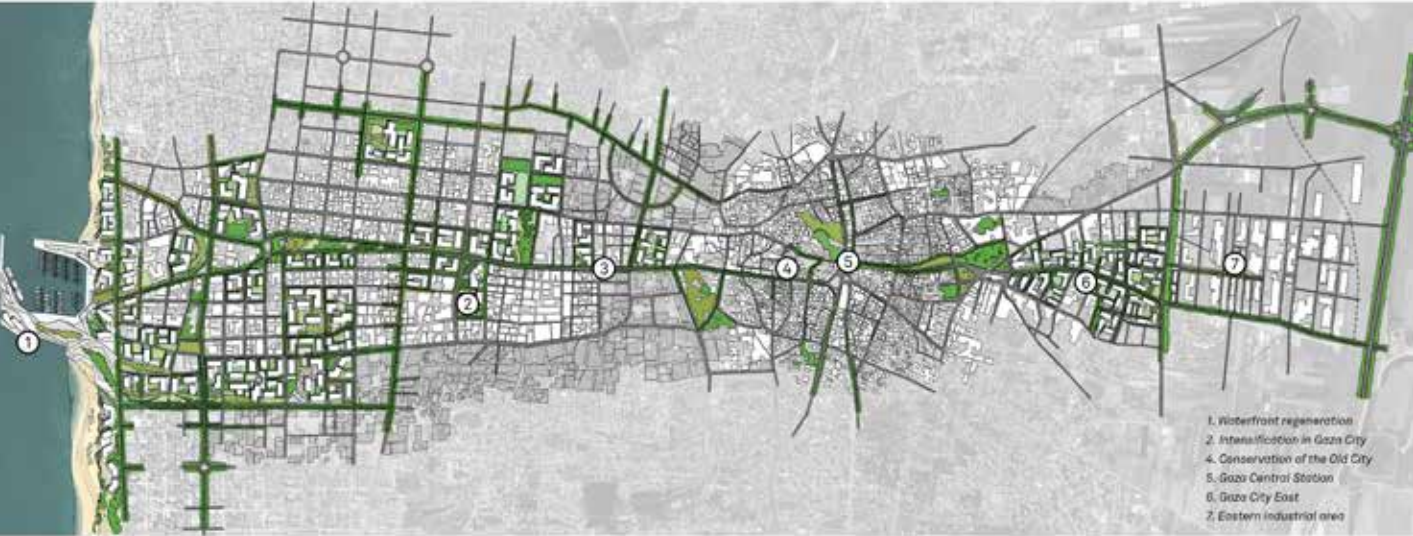
Client: Omran **Urban Design and Lead Consultant:** Allies and Morrison **Infrastructure, Transport and Environment:** Arup **Landscape Architect:** Kim Wilkie Associates in association with Arup **Cost Consultant:** RLB **Specialist Advisor for Implementation:** Angus Gavin

Global Palestine, Connected Gaza Gaza Strip, Palestinian Territories

The Gaza Strip faces extraordinary challenges, including restrictions on trade and movement, a severely constrained economy, deficient infrastructure and the threat of permanent environmental damage. Yet Gaza could potentially become a thriving and successful city. This comprehensive spatial and economic vision uses the London team’s specialisation in development and delivery of major urban and regional plans across the world. It looks forward to 2050, assuming increased regional openness and co-operation.

Address: Gaza Strip, Palestinian Territories
Status: Design stage
Size: 320 million m²
Type: Masterplan

Client: Co-ordinating Committee of the Palestinian Private Sector (Consolidated Contractors Company, Bank of Palestine, Palatine Investment Fund, PALTEL and PRICO), in partnership with The Portland Trust **Strategic and Urban Planner, Economist, Demographer, Transport Planner, Infrastructure Planner, Environment and Open Space Planner:** AECOM **Artist / Illustrator:** Young Hudson Ltd **Illustrator:** Szczepan Urbanowicz (Szcz Pty Ltd) **Animator:** Squint Opera



- 1. Waterfront regeneration
- 2. Intensification in Gaza City
- 4. Conservation of the Old City
- 5. Gaza Central Station
- 6. Gaza City East
- 7. Eastern industrial area



Cooling Tower Enclosure Doha, Qatar

This enclosure for a series of cooling towers, a heat exhaust for a large underground district cooling plant, services the Msheireb Downtown neighbourhood in Doha. The design concept, generated from local traditions of basket and mat weaving, arranges a set of precast concrete 'wave' profiles into a 'woven' enclosure. This creates a visually interesting and structurally efficient screen around the cooling towers, while providing the free area required to ventilate the equipment.

Address: Doha, Qatar
Status: Completed, 2016
Size: 1,951 m²
Type: Infrastructure

Architect: Allies and Morrison **Client:** Msheireb Properties **Structural Engineer:** Arup



Al Sadd Square Doha, Qatar

The masterplan's key objective is to knit the new development into the existing urban structure. The proposals draw from the history of the city to create a contemporary local centre that is rooted in the past while embracing the area's current and future needs. The London team's urban design expertise was crucial to understanding the historic evolution of the city.

Address: Al Sadd Square, Al Rayyan Road, Doha
Status: Design stage
Size: 44,515 m²
Type: Masterplan

Client: Tameer Real Estate **Masterplanner:** PDP London
Business Case and Commercial Report Consultant: DTZ
Sustainability Consultant: Eight Associates **Transport Consultant:** WSP





Diwan Amiri Quarter ***Doha, Qatar***

This group of three stone-clad public buildings comprises an administrative building for the Emir of Qatar's Staff, the Amiri Guards' barracks and the Qatar National Archive. They include modern interpretations of traditional features such as internal streets and courtyards and decorative shading screens. They embody ambitious environmental standards and an architectural vocabulary rooted in tradition while looking to the future. They help set the tone for the wider development and its later phases.

Address: Al Rayyan Road, Doha, Qatar

Status: Completed, 2016

Size: 73,900 m²

Type: Civic building

Client: Msheireb Properties **Architect:** Allies and Morrison

Project Manager: Turner International Middle East

Masterplanner: Allies and Morrison with Arup/EDAW

Engineer: Burns and McDonnell

Doha College ***Doha, Qatar***

This world-class education facility will accommodate the most innovative learning methods for 2,500 pupils aged 3 to 18. It is based on the notion of a school for all ages 'under one roof', adapting the essence of a 'British' school to the Arabian Peninsula. Jestico + Whiles' team provided all design services from London, transferring educational and sustainability expertise and technology from the UK to the Doha climate.

Address: Al Nisr Street, Al Wajba, Doha, Qatar

Status: Design stage, due to complete 2019

Size: 39,500 m²

Type: Education

Client: Doha College **Architect:** Jestico + Whiles

Engineering Consultant: Buro Happold **Landscape**

Architect: Fabrik **Academic/Research Consultants:**

The Learning Crowd **ICT Consultants:** 9ine

FF&E: Space Zero **Quantity Surveyor:** Quantex

Architect of Record: Qatar Design Consortium



Eid Prayer Ground ***Doha, Qatar***

This redevelopment and reconstruction of Doha's historic Eid Prayer Ground is on a prominent site across from the city's Al Koot Fort. The above-ground construction included the prayer ground, the associated Qibla Wall, screening walls, sun screens, amenities and enhancements such as public art. The design concept is based on the resolution of the site geometries and the contrast between the purity required of a sacred ground and the incidental character of the actual site.

Address: Eid Prayer Ground, Doha, Qatar

Status: Completed, 2016

Size: 3,995 m²

Type: Culture

Client: Msheireb Properties **Architect:** Allies and Morrison **Structural Engineer:** Arup



**Hamad Bin Khalifa
Medical City
Doha, Qatar**

Set to be one of the world’s largest healthcare developments, this project will regenerate a moribund city-centre site while addressing the wider public health challenges facing a rapidly changing society. The London-based multi-disciplinary team’s proposals more than double the site’s capacity over the next 15 years, whilst creating a walkable, patient-centred district in which the landscape, streetscapes and movement networks define a new urban character.

Address: Doha, Qatar
Status: Under construction, due to complete 2030
Size: 1 million m²
Type: Healthcare masterplan

Client: Hamad Medical Corporation **Architect & Masterplaner:** Allies and Morrison **Masterplan Engineering:** Buro Happold
Building Engineer: Stantec **Landscape Architect:** Townshend Landscape Architects

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**Heritage House
& Museum Quarter
Doha, Qatar**

Located at the historic centre of Doha, the Heritage Quarter was the traditional anchor of local cultural, religious and political life. Four historic houses have been remodelled and extended to accommodate state-of-the-art museum environments showcasing key elements of Qatari history and culture. John McAslan + Partners’ expertise in this area has been seen in many cultural and heritage projects in London and around the world.

Address: Doha, Qatar
Status: Completed, May 2016
Size: 4,605 m²
Type: Cultural

Client: Msheireb Properties **Architect, Landscape Architect:** John McAslan + Partners **Local Consultant:** Arab Engineering Bureau **Engineer:** Buro Happold **Contractor:** QACC, Qatar **Museum Planner:** Barker Langham **Lighting Designer:** GIA-Equation

**Jumaa Mosque
Doha, Qatar**

The design for the Jumaa Mosque fuses Modernism with a historical arrangement of volumes and spaces, using specifically Qatari materials and architectural details. It reflects the key principles of Islamic art and architecture: simplicity, functionality, spirituality, light, pattern, geometry and water. The London practice’s experience of cultural and heritage projects includes various high-profile schemes in London and the UK as well as internationally.

Address: Doha, Qatar
Status: Completed, September 2016
Size: 1,400 m²
Type: Cultural

Client: Msheireb Properties **Architect & Landscape Architect:** John McAslan + Partners **Project Manager:** TIME Qatar **Contractor:** QACC, Qatar
Local Consultant: Arab Engineering Bureau **Lighting Designer:** GIA-Equation

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**Khalifa Tennis Complex
Doha, Qatar**

The design of this 15,000-seat stadium is a dynamic response to the site, local environmental conditions and the functional requirements of a multi-purpose arena, focused on tennis. Its two primary functional elements – the bowl and the base – form a memorable shape that suggests a ball in flight. The London teams developed a range of unique, specially written software that was central to the project and transformed the speed of delivery and the accuracy of the design.

Address: Doha, Qatar
Status: Design stage, due to complete 2020
Size: 32,000 m²
Type: Masterplan

Client: Qatar Ministry of Culture & Sports **Architect, Sports Specialist Architect, Masterplanner, Engineering, Landscape Designer:** Arup Associates **Interior Designer:** United Design Partnership

Msheireb Downtown Doha, Al Barahat Square Doha, Qatar

Msheireb Downtown Doha aims to regenerate and conserve the historical downtown of Qatar’s capital. It takes inspiration from indigenous building types and urbanism, and features a concept for the public realm as an ‘urban majlis’ (“place of sitting”) surrounded by multi-use buildings. The retractable roof and ‘cool pools’ allow Al Barahat Square to be used year-round. The London team brought a detailed knowledge of working internationally with a cultural sensitivity to the location.

Address: Doha, Qatar
Status: Under construction, due to complete 2017
Size: 57,424 m²
Type: Mixed-use

Client: Msheireb Properties **Architect:** Mossessian Architecture **Project Manager:** TiME Qatar - Joint Venture between Turner International Middle East and Msheireb Properties **Contractor:** Carillion QBC JV **Executive Architect:** Burns McDonnell **Climate Engineers:** Transsolar **Canopy + Roof Engineers:** Schlaich Bergermann & Partners



jenine@newlondonarchitecture.org 26 Sep 2017



Msheireb Downtown Doha Doha, Qatar

Msheireb is a masterplan for the regeneration of the historic heart of Doha with an appropriate new architectural language for Qatar, creating shaded, pedestrian-friendly spaces to bring people back to the city centre. With 70 buildings, it has the largest concentration of LEED Platinum buildings in the world. Architecture critic Edwin Heathcote has commented that the project is ‘remarkable in its scale as well as in its architecture – which has been almost entirely designed by British architects...the key to a real downtown is here, the network of streets arcades and public spaces.’

Address: Doha, Qatar
Status: Phases at different stages of construction
Size: 350,000 m²
Type: Masterplan

Client: Msheireb Properties **Architect:** Allies and Morrison **Structural Engineer and Lead Consultant, Services Engineer:** Arup **Masterplanner:** Arup/EDAW

Qatar National Archive Doha, Qatar

The National Archive is both a storehouse of Qatar’s heritage and a place of public access and gathering, reflecting the Qatari archetype of the fortified tower. The Archive forms a prominent landmark, with its form fragmented to respond to its historical context and the diverse surrounding cityscape. The central block, containing the archive stack, is lifted to create a grand portico: a central point of arrival and orientation.

Address: Doha, Qatar
Status: Completed, 2016
Size: 26,000 m²
Type: Cultural

Client: Msheireb Properties **Architect:** Allies and Morrison **Project Manager:** Turner International Middle East **Masterplanner:** Arup/EDAW **Engineer:** Burns and McDonnell



© Gerry o leary



Msheireb Downtown Doha – Phases II and III

Doha, Qatar

This regeneration project uses the latest in sustainable technologies to rejuvenate Doha’s old commercial district with a modern architectural language and to revive Doha’s lost sense of community. The London-based multi-practice project team was responsible for the development of all design works, construction documentation and full time on site observation until the completion of the project.

Address: Doha, Qatar
Status: Under construction, due to complete 2017
Size: 353,500 m²
Type: Masterplan

Client: Msheireb Properties **Architect:** Gensler, Squire & Partners, Allies & Morrison, John McAslan + Partners, Eric Parry Architects, Mossessian & Partners and MYAA Architects
Structural Engineer: Buro Happold Engineering



New King Abdulaziz International Airport Development

Jeddah, Saudi Arabia

This project will ultimately increase this airport’s capacity to 80 million passengers annually. The new facilities bring all airlines together, introducing exceptional levels of comfort and convenience for passengers with a new passenger terminal building, high speed railway station and mosque. The London-based team led the multi-disciplinary design of the passenger terminal building and designed the ICT for all the new facilities.

Address: Madina Road, Jeddah, Kingdom of Saudi Arabia
Status: Under construction, due to complete 2017
Size: 720,000 m²
Type: Transport and infrastructure

Client: Saud Bin-Laden Group **Architect:** Atkins, Pascall+Watson **Structural Engineer:** Atkins, Arup **Building Services Engineer, Special Airport Systems, Landscape Designer, Utility Designer:** Atkins **Interior Designer:** Areen Design

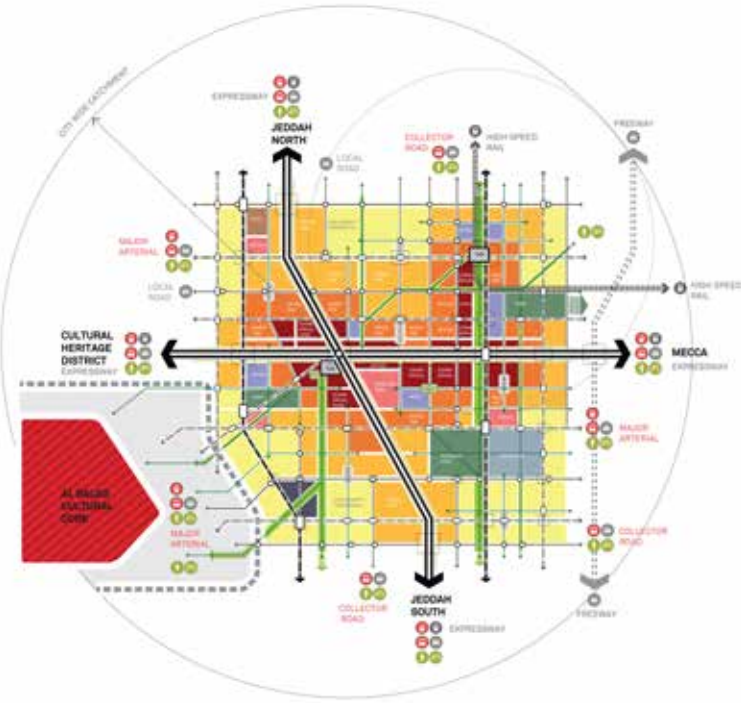
Jeddah Plans

Jeddah, Saudi Arabia

These city-wide plans propose a bold, long-term solution for Jeddah’s future development. They optimise infrastructure and public realm investment, give residents better access to amenities and jobs, improve resilience and define a more human-scale character. AECOM, with Space Syntax, applied a specialist ‘Integrated Cities Design Process’ to these plans, an approach used to successfully make and deliver urban and regional plans across the globe.

Address: Jeddah, Kingdom of Saudi Arabia
Status: Design stage
Size: 5.4 million m²
Type: Area strategy

Client: Jeddah Municipality **Strategic Planning, Master Planning, Urban Design, Transport Planning, Cost Modelling, Utilities Planning, Engagement and Consultation, Project Management:** AECOM **Network and Space Modelling:** Space Syntax



King Abdul Aziz Road (KAAR) Urban Development Project

Mecca, Saudi Arabia

This signature urban development project provides connectivity to the Al Haram Mosque, flanked by hotels, commercial and retail facilities, residential buildings and public amenities to support religious, social and commercial activities for Muslim pilgrims, other visitors and local residents. The London team’s expertise in public realm and urban design has resulted in a successful design response not only to Mecca Municipality’s design codes, but also to the highest international standards.

Address: King Abdul Aziz Rd, Mecca, Kingdom of Saudi Arabia
Status: Under construction, due to complete 2017
Size: 1.2million m²
Type: Masterplan

Urban Design, Landscape and Transport Architect: ONEWORKS **Main Contractor:** Nesma & Parners **Lead Design Contractor:** COWI

© Atkins





Riyadh Transport-Oriented Development Study Riyadh, Saudi Arabia

This study predicts the influence of the new metro system on Riyadh while identifying opportunities to capture value from infrastructure investment. The metro will deliver 96 new stations and a comprehensive bus network, fundamentally changing a city previously reliant on private car usage. Barton Willmore’s comprehensive analysis of TOD principles, global best practice and market trends informed the study.

Address: Riyadh Metropolitan Area, Kingdom of Saudi Arabia
Status: Design stage
Type: Area strategy

Client: Arriyadh Development Authority **Architect and Designer:** Barton Willmore **Transport Advice:** Buro Happold **Local Partner:** Indexa

Al Aredh National Park Riyadh, Saudi Arabia

This is an ambitious public sector-led planning initiative to protect, conserve and enhance a 4,356 km² area on the edge of Riyadh. It aims to establish a leisure resource for citizens; reinforce the urban limits of Riyadh through positive development control; and stimulate private-sector development. It has been led by Barton Willmore’s London-based masterplanning team through an iterative process, informed by the practice’s Strategic Environmental Assessment and Landscape Planning teams.

Address: Riyadh, Kingdom of Saudi Arabia
Status: Under construction
Size: 4.4 billion m²
Type: Masterplan

Client: Arriyadh Development Authority
Masterplanner, Architect, Landscape Architect, Environmental Impact Assessment, Landscape Planning: Barton Willmore **Consultant Engineer, Consultant Economic Strategist:** Buro Happold
Heritage Consultant: William Facey



Al Haramain High Speed Rail Riyadh, Saudi Arabia

The Haramain High-speed Railway connects the cities of Mecca, Medina, Jeddah and the developing King Abdullah Economic City. The stations are conceived as gateways to each city, filled with places to meet, shop, eat and shelter from the sun. Altogether the stations will cover an area more than 30 times that of London’s Trafalgar Square and will initially accommodate 60 million passengers, expected to increase to 135 million passengers by 2042.

Address: Riyadh, Kingdom of Saudi Arabia
Status: Under construction, due to complete 2017
Size: 319,000 m²
Type: Transport and infrastructure

Client: Saudi Railways Organisation **Architect:** Foster + Partners **Collaborating Architect:** Buro Happold **Cost:** Davis Langdon **Landscape:** Capita Lovejoy **Lighting:** Jason Bruges



Abu Dhabi International Airport, Midfield Terminal Complex – Landscape
Abu Dhabi, United Arab Emirates

Drawing on years of experience of designing and delivering large scale landscapes and masterplans for cities, infrastructure and major events, including London 2012 Olympics and Rio 2016 Olympics, AECOM’s London team designed an expansive 170 hectare landscape culminating on the Midfield Terminal. The design of the terminal itself is inspired by the diverse landscapes and culture of the UAE, while the use of advanced modelling tools to create localised microclimates for planting allows to minimise water use and water loss to evaporation.

Address: Abu Dhabi, United Arab Emirates
Status: Under construction, due to complete 2017
Size: 1.7 million m²
Type: Transport

Client: Abu Dhabi Airports Corporation **Landscape Architect:** AECOM **Architect:** Kohn Pedersen Fox



Abu Dhabi International Airport, Midfield Terminal Complex
Abu Dhabi, United Arab Emirates

One of the largest and most technically detailed projects in the world, this airport has been conceived as a gateway to Abu Dhabi. The airport is designed as an urban space, completed with plazas and internal buildings united under one expansive roof. At the heart of the project is the main central plaza, which functions as a traditional central market.

Address: Abu Dhabi, United Arab Emirates
Status: Under construction, due to complete 2017
Size: 735,000 m²
Type: Transport

Client: Abu Dhabi Airports Company **Architect:** Kohn Pedersen Fox **Engineer:** Arup **Airport Systems:** Deerns **Landscape Architect:** AECOM



Siemens Middle East Headquarters

Abu Dhabi, United Arab Emirates

Representing a new benchmark for sustainable office buildings in the Middle East, this is the first office in the region to achieve LEED Platinum rating. The use of computerized parametric software enabled efficient design solutions, using less material and minimising embodied carbon. Parametric principles were also used to create the building’s super-sized floorplates, each measuring 4,500 sqm. They have been optimised for efficiency, daylight and flexibility using parametric modelling and achieving over 90% efficiency.

Address: Masdar City, Abu Dhabi, United Arab Emirates
Status: Completed, January 2014
Size: 22,800 m²
Type: Office

Client: ADFEC (Masdar) **Architect:** Sheppard Robson
Structural Engineer, M&E Consultant: AECOM **Project Manager:** Morganti **Main Contractor:** Al Fara’a General Contracting Company

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Dubai Opera

Dubai, United Arab Emirates

Dubai Opera is unique for a venue of its size, with the ability to convert from a theatre into a concert hall and into a flat floor form of 2000 m² of space for events. Designed to represent a dhow, a kind of sailing boat, the roof presented a series of complex multi-curvature surfaces. The Atkins team in London used four types of advanced virtual modelling to predict the performance of the building and its systems and to optimise the design solutions.

Address: The Opera District, Sheikh Mohammed Bin Rashid Boulevard, Downtown Dubai, United Arab Emirates
Status: Completed, 2016
Size: 2,000 m²
Type: Culture

Masterplanner, Architect, Building Services, Landscape: Atkins **Interior Design:** WA international **Facade and Roof:** Werner Sobek Associates **Building Services Contractor:** BK Gulf



Jameel Art Centre

Dubai, United Arab Emirates

Located at the tip of Dubai’s Cultural Village, overlooking the Dubai Creek, this art centre consists of galleries, artist studios, classrooms, incubator spaces and a restaurant. Designed as a series of boxes and bound together by a one storey high colonnade, the JAC is an intimate place for experiencing and producing art. London-based Serie Architects developed the design concept drawing from the local cultural and political context, based on careful studies of building types and the urban context.

Address: Culture Village, Dubai, United Arab Emirates
Status: Under construction, due to complete 2019
Size: 5,867 m²
Type: Cultural

Client: ART Jameel, Abdul Latif Jameel Community Initiatives
Architect: Serie Architects **Local Architect:** Emarat Al Sharq
Structure/ MEP/ Facade Engineering: Buro Happold **Cost Consultant:** Gardiner & Theobald **Landscape:** Gross Max
Lighting Consultant: Buro Happold



Business Bay Towers

Dubai, United Arab Emirates

A mixed-use commercial and residential development in Downtown Dubai, the building has two sparkling glass towers, each clad in shimmering, triangulated curtain wall glazing to reflect the sun and water. LOM brought an analytical approach to the masterplanning of the development together with a contemporary design sensibility, working with a UAE based engineering team to develop a complex building arrangement which brings the public realm into the heart of the development, and to create a complex, articulated curtain wall system.

Address: Al Abraj Street Business Bay, Dubai, UAE
Status: Under construction, due to complete 2019
Size: 76,000 m²
Type: Mixed-use

Client: United Arab Bank **Architect:** LOM architecture and design **Multidisciplinary Engineer:** WSP **Landscape architect:** Al Shamsi TerraFirma **Development Manager:** Carter Associates **Quantity Surveyor:** Turner and Townsend
Enabling Works Contractor: NSCC



Dubai Creek Harbour

Dubai, United Arab Emirates

Located adjacent to Ras Al Khor Wildlife Sanctuary, this development will reinvigorate the waterfront along Dubai Creek and offer a new lifestyle centred on innovation, responsible growth and community. Designed through close collaboration between CallisonRTKL’s London and Dubai teams and drawing on CallisonRTKL’s experience of placemaking, combined with the creation of waterfront destinations, the team crafted a masterplan that actively engages the Creek while extending value into the centre of the large site.

Address: Dubai, United Arab Emirates
Status: Design stage
Size: 6,000,000 m²
Type: Masterplan

Client: Emaar Properties PJSC **Masterplan Architect:** CallisonRTKL London & Dubai **Infrastructure Engineer:** Atkins
Traffic Consultant: Aurecon **Marina and Water Consultant:** CH2M **Landscape Architect:** Field Operations / Arcadis **Cost Consultant:** F&GMarket Advisor: CBRE



NORTH AMERICA

Along with China and India, the USA accounts for nearly a third of the global population and economic output and forms one of the world's major markets for built environment services. Both the USA and Canada are seeking London teams' experience and knowledge of masterplanning, major infrastructure and transport projects, placemaking, sustainable design and innovation, and, increasingly, innovative housing and education building typologies.

Brookfield Place *Calgary, Canada*

Redeveloping an entire block, this commercial development will significantly contribute to the public realm and provide premium workspace. It will house the tallest building in western Canada at 56 storeys and 247 metres tall, characterised by rounded and tapered corners and a curved 'crown' with frameless clear glass. The London team designed the workspace and cladding and implemented technical design solutions to maximise views and optimise daylight penetration.

Address: Calgary, Canada

Status: Under construction, due to complete 2017

Size: 2.4 million m²

Type: Workspace

Client: Brookfield Office Properties **Architect:** Arney Fender Katsalidis and DIALOG **Structural Engineer:** Entuitive **Mechanical Engineers:** The Mitchell Partnership **Electrical Engineers:** Mulvey & Banani International Inc. **Main contractor:** EllisDon Construction Services **LEED:** Gold (Targeting)

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Royalmount Montreal, Canada

Transforming a prominent brownfield site, this project will create a vibrant, mixed-use destination, centred on new public realm. Drawing on expertise in placemaking, the design seeks to create a well-connected, socially sustainable and contextual new district. With good public access from the nearby De La Savane metro station, the design is defined by an outdoor pedestrian promenade which links into the street network and is sheltered by edge buildings and sited away from the neighbouring highways.

Address: Montreal, Canada
Status: Design stage, due to complete 2021
Size: 371,612 m²
Type: Mixed-use

Masterplanner, Design Architect: Benoy **Executive Architect:** Lemay **Client:** CarbonLeo **Pedestrian Bridge Design:** Sidlee
Traffic Engineers, MEP & Structural Engineering: WSP



Bay Park Centre Toronto, Canada

Redeveloping three linked sites in downtown Toronto for commercial use, this masterplan includes twin 250m-high towers, positioned on opposite sides of a rail corridor and linked at a high level by a sky park. The project provides a new bus terminal for Metrolinx, as well as new connections into Union Station, subway and light rail systems. The site’s intimate integration with public transport networks required a nuanced approach, informed by WilkinsonEyre’s expertise with oversight developments, transport interchanges and high-end commercial developments.

Address: 81-141 Bay Street, Toronto, Canada
Status: Under construction, due to complete 2022
Size: 33,000 m²
Type: Masterplan

Client: Ivanhoé Cambridge **Design Architect:** WilkinsonEyre **Executive Architect:** Adamson Associates
Services Engineer: The Mitchell Partnership **Structural Engineer:** Read Jones Christoffersen



The Centre for Engineering Innovation & Entrepreneurship (CEIE) Toronto, Canada

Located at the heart of the University of Toronto’s city centre campus, this research hub will accommodate a wide range of engineering disciplines, from heavy mechanical through to computer engineering. Facilities include a 500-seat lecture theatre, workshop and lab spaces, innovation incubator suites, project rooms, and an extra-curricular club space. The London-designed low-energy building signals a new era for engineering education. The design encourages group work outside the traditional seminar room, fostering collaboration and active learning, ultimately accelerating innovation.

Address: University of Toronto, 35 St George St, St. George Campus, Toronto, Canada
Status: Under construction, due to complete 2018
Size: 15,000 m²
Type: Education

Architect: Feilden Clegg Bradley Studios **Client:** University of Toronto **Prime Consultant:** Montgomery Sisam Architects Inc **Structural Engineer:** Read Jones Christoffersen **Main Contractor:** Bird Construction Group **M&E Design:** Smith + Anderson **Project Managers & Cost Consultant:** UoT **Landscape Architect:** Nak Design Strategies



TO360 – City of Toronto Wayfinding and Information System Toronto, Canada

This wayfinding pilot project in the Financial District has delivered pedestrian, cycling and vehicular strategies. Using on-street signage and additional mapping and information, the project has drawn on experience in evaluating Legible London to inform the business case based on transport, economic and health benefits. Services led by London-based consultants included stakeholder engagement tactics, wayfinding strategy, information and location planning, as well as concept and detail graphic, product, visualisation and cartographic design.

Address: Toronto, Canada
Status: Completed, September 2016
Type: Transport strategy

Client: City of Toronto **Design Consultant:** Steer Davies Gleave **Facilitation Partner:** Swerhun Facilitation **Cartographic Partner:** T-Kartor **Fabrication Partner:** Future Systems





The Well Toronto, Canada

This mixed-use development in downtown Toronto is based on multi-level urban models more commonly seen in Europe and the brief was informed by a tour of retail-led developments in the UK. Retail buildings define and occupy the first three levels of the city block to form the podium, above which towers form a high density residential and office scheme. The scheme draws on experience in integrating retail into dense urban environments and creating distinctive destinations for shopping, dining and leisure.

Address: 1344 Queen St W, Toronto, Canada

Status: Design stage, due to complete 2022

Size: 278,709 m²

Type: Mixed-use

Client: RioCan, Allied Properties, Diamond Corp

Architect, Interior Designer, Landscape Architect,

Lighting Design: BDP

Wade Street Los Angeles, USA

Quadrupling existing density on the site of a single-family home, this project explores the options of intensifying the footprint of underutilised urban plots. This project applies knowledge and experience of finding more space in London’s urban fabric to a hybrid housing model that is appropriate to Los Angeles’s urban expansion and densification.

Address: 4118 Wade Avenue, Culver City, California, USA

Status: Under construction, due to complete 2018

Size: 1,105 m²

Type: Housing

Client: Wylan James Development **Architect:** Ben Adams Architects **Structural Engineer:** Soly Yamini **Landscape:** Aron Nussbaum Studi



Los Angeles Union Station Masterplan Los Angeles, USA

This scheme preserves the celebrated qualities of the historic station and its surrounding 17 hectares while addressing future needs. It adds a new passenger concourse to provide a large-scale civic space for passengers and related support functions and amenities, and a new bus facility to consolidate local and regional bus functions. Over two decades of experience working in the UK’s rail stations were utilised during the execution of the masterplan.

Address: 800 N Alameda St, Los Angeles, USA

Status: Completed, 2014

Size: 170,000 m²

Type: Infrastructure, masterplan

Client: Los Angeles County Metropolitan Transportation

Authority (LA Metro) **Architect:** Grimshaw and Gruen

Associates **Implementation, Funding & Entitlements:**

Point C, LLC **Transportation Planning, Traffic Engineering,**

Parking, Connectivity: Fehr & Peers **Transit Engineering**

for High Speed Rail: Sener **Urban Design:** Cityworks

Community Outreach: The Robert Group **Landscape**

Architecture: Mia Lehrer + Associates Sustainability, Building

Engineering, Security; Buro Happold **Infrastructure:** Psomas

Civil Engineering: VCA Engineering, Inc. **Surveying:** Wagner

Engineering and Survey Geotechnical **Consultant:** Diaz

Yourman & Associates **Cost Planning:** Basis **Wayfinding:**

Selbert Perkins Design Collaborative **Reprographics:**

Davis Blueprin



Orange County Complete Streets Initiative California, USA

Helping planners and designers create a transportation network that serves all users, regardless of mode of transportation, age or ability, this handbook provides a suite of flexible policies and design guidance tailored to suit the character, use and capacity of all street types. Using experience from working on public realm and transportation projects for public and private organisations, including Transport for London, the London team translated their understanding of balancing the needs of movement and place into the southern Californian context.

Address: Orange County, California, USA

Status: Strategy completed, May 2016

Size: 24,5 million m²

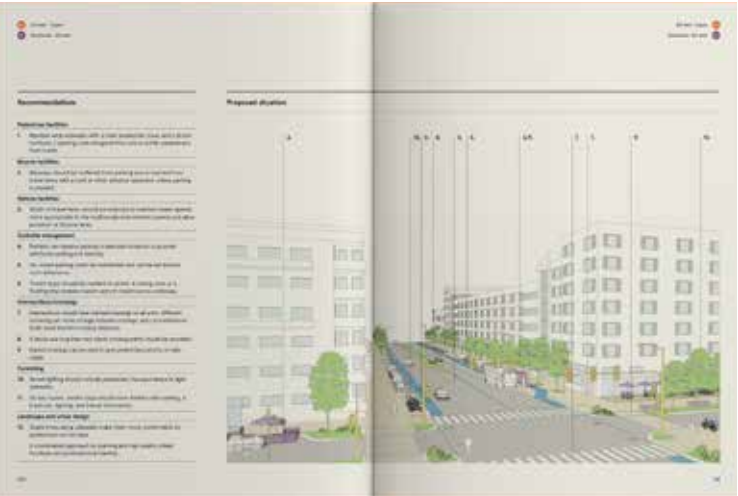
Type: Transport strategy

Client: Orange County Council of Governments

Design Consultant: Steer Davies Gleave

Transportation Consultant: Fehr & Peers

Stakeholder Engagement Consultant: Leslie Scott Consultant



Apple Store, Union Square San Francisco, USA

Enabling new levels of transparency and openness, this new store aims to offer a richer experience beyond opportunistic retail. A product of close collaboration between client and architect, the building is supported by a giant steel truss structure that bridges over the neighbouring hotel basement ballroom, and the impression of ‘floating’ glass steps on either side of the store belies the complexity of the engineering solution.

Address: 300 Post Street, Union Square, San Francisco, USA
Status: Completed, 2016
Size: 2,136 m²
Type: Retail

Client: Apple Inc. **Architect:** Foster + Partners **Main Contractor:** Pepper Construction, Ledcor Group **Structural Engineer:** Simpson Gumpertz Heger **Cost Consultant:** Apple **M&E Engineer:** Guttman & Blaevoet **Landscape Architect:** Carducci Associates



© Nigel Young



Chicago Skyline

Chicago, USA

Linking Navy Pier to the Lakefront, Riverwalk and downtown Chicago, this new landmark tourist attraction will create a state-of-the-art aerial cable car for the city. Unlike aerial systems in Hong Kong, Singapore and New York, the system is bespoke from the ground up, with capsules, stations and pylons custom-designed to relate to the city’s architecture while serving both to transport and to entertain. The team has adapted cable car technology resulting in an environmentally friendly, high-quality design suitable for an urban environment.

Address: Chicago River, USA
Status: Design stage
Size: 2,500 m long
Type: Cable Car

Client: Assets Aloft **Architect:** Marks Barfield Architects **Local Architect:** Davis Brody Bond
Engineer: Jacobs **Passenger pods /drive system:** POMA



© F10 Studios

Harvard University: Richard A and Susan F Smith Campus Center

Cambridge, MA, USA

Reconfiguring a 10-storey 1950s building, this project creates a family of new internal spaces, providing a variety of scale and character to support the intellectual, cultural and social life of the university, framed by external landscaping. Hopkins Architects delivered the project by bringing together a diverse team of consultants in the UK and abroad with whom they have successfully partnered in the past.

Address: 75 Mt Auburn Street, Cambridge, Massachusetts, USA
Status: Under construction, due to complete 2018
Type: Education

Client: Harvard University **Design Architect:** Hopkins Architects **Architect of Record:** Bruner Cott **MEP, Structural & Civic Engineer:** Arup **Landscape Architecture:** Michael Van Valkenburgh Associates **Facade Engineer:** Simpson Gumpertz & Heger **Cost Consultant:** Faithful+Gould



West 21st Street Tower

New York, USA

Located by the Hudson River, with views south west towards the river and east towards the Manhattan skyline, this mixed-use scheme combines residential units on upper floors and art gallery units at the lower levels in the plinth. The London-based team created a design with multiple corners, emphasising the two views, with flexible floor plans which can easily be adapted in response to fluctuating market conditions.

Address: 540 W 21st St, New York, USA
Status: Design stage
Size: 16,107 m²
Type: Residential

Architect: Studio Seilern Architects **Building Codes Consultant:** Jack Callahan **Zoning Analysis:** Michael Parley





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Hudson Yards Vessel New York, USA

Sited within Manhattan’s 11 hectare Hudson Yards development, Vessel is a new public centrepiece composed of 154 flights, 80 platforms and almost 2,500 steps. Heatherwick Studio’s design enables people to climb and explore the structure, which reveals views across the plaza and Manhattan, and acts as a new free stage set for the city in which New Yorkers and visitors can gather.

Address: Hudson Yards, Manhattan, New York, USA
Status: Under construction, due to complete 2018
Size: 45 m tall
Type: Public realm

Client: Related Companies **Designer:** Heatherwick Studio
Executive Architect: Kohn Pedersen Fox **Structural Engineer:** Thornton Tomasetti **M&E Engineer:** Jaros Baum & Bolles Engineers **Landscape Architect:** Nelson Byrd Woltz **Contractor:** Cimolai



Duke University West Union Durham, NC, USA

Preserving the integrity of Horace Trumbauer’s 1920s design, this scheme restores the structure’s historic character and provides a frame for the new atrium, which replaces the existing core. The lofty, day-lit hall includes a variety of dining venues that allow faculty students, staff and alumni to meet, developing a greater sense of community. Cross-office design reviews between Grimshaw’s New York and London offices were commonplace throughout the project to help share knowledge and best practice.

Address: 416 Chapel Dr, Durham, North Carolina, USA
Status: Completed, September 2016
Size: 10,680 m²
Type: Education

Client: Duke University **Architect:** Grimshaw **Structural Engineer:** BuroHappold **Landscape:** Reed Hilderbrand **M&E Engineer:** Vanderweil Engineers **Facade Specialist:** Front Food Service Designer: Yui Design **Branding & interior design collaborator:** Celano Design Studio



© James Ewing

AELP Masterplan Oklahoma City, USA

The phased delivery of this sustainable new neighbourhood will create spaces for office, retail, residential and leisure facilities on the northern fringe of Oklahoma City. The architect’s experience in low-energy, triple-skin facade systems – technology previously unrealised in the American Southwest – enabled the creation of structures that maximise natural light, without repercussions from the the intense thermal variables, earthquakes and severe weather experienced in this region.

Address: 7948-8098 Broadway Ext, Oklahoma City, USA
Status: Design stage
Size: 72, 000 m²
Type: Mixed-use

Client: American Energy Partners LP, Bright Horizons Children’s Centers, LLC Commercial Law Group, P.C. **Architect:** Allford Hall Monaghan Morris **Structural Engineer:** AKT II **Facade Engineer:** Eckersley O’Callaghan **Civil Engineer:** Johnson & Associates, Inc. **MEP Engineer:** Arup



AEP Fitness Oklahoma City, USA

Reutilising and extending a basement structure, this project has created a sports and leisure hub with a basketball court, studios, adaptable climbing wall, outdoor running track, dual-use sunken pond and other associated uses. Arched steel trusses, clad with industrial-scaled profile metal sheeting, enclose the hangar-like volume with fully-glazed gables. The collaborative vision was coordinated online, following a concept created in London using rapid, iterative design development – a crucial tool for working with a highly ambitious client.

Address: 911 NW 67th Street, Oklahoma City, USA
Status: Completed, October 2015
Size: 2,787 m²
Type: Health and wellbeing

Client: American Energy Partners LP **Architect:** Allford Hall Monaghan Morris **Contractor:** Smith & Pickel Construction Consulting **Engineer:** Darr & Collins **Mechanical Consultant:** Harrison-Orr Air Conditioning, LLC **Civil Engineer:** Johnson & Associates, Inc. **Structural Engineer:** Mark Eudaley Engineers **Landscape Architect:** Hocker Design Group



Level Urban Apartments Oklahoma City, USA

Delivering 228 one- and two-bedroom apartments and over 460 m² of retail space, this four-storey building encases a communal courtyard, creating an affordable and cost-effective housing model for the city that updates the dominant low-density single-storey typology. The London-based team brought expertise in both the phasing of the project, which had to be constructed in 14 months, and the intentional provision of active edges while also providing defensible space.

Address: 123 NE 2nd Street, Oklahoma City, USA
Status: Completed, June 2012
Size: 35,024 m²
Type: Mixed-use

Architect: Allford Hall Monaghan Morris **Structural Engineer:** Viewtech, Inc. **MEP Engineer:** Engineering Design Associates **Civil Engineer:** SMC Consulting Engineers, **Landscape Architect:** Hocker Design Group



Smithsonian National Museum of African American History and Culture Washington DC, USA

Delivered by Adjaye Associates, this contemporary addition completes Washington's historic National Mall with 'the most sustainable Smithsonian museum ever built', on track to achieve LEED Gold certification. The design seeks to establish both a meaningful relationship to this unique site as well as a strong conceptual resonance with America's longstanding African heritage, and houses exhibition galleries, administrative spaces, theatre space and collections storage space.

Address: 1400 Constitution Ave NW, Washington DC, USA
Status: Completed, September 2016
Size: 39,019 m²
Type: Cultural

Client: Smithsonian Institution **Lead Designer:** Adjaye Associates **Architect of Record:** The Freelon Group (Perkins + Will) **Associate Architect:** Davis Brody Bond-Smith Group JJR **Structural Engineer:** Guy Nordeson Associates, Robert Silman Associates **Mechanical Engineer:** WSP, Flack + Kurtz **Sustainability Consultant:** Rocky Mountain Institute **Landscape Architect:** Gustafson Guthrie Nichol **Lighting Consultant:** Fisher Marantz Stone **Acoustics / AV / Theatre / Multi-Media Consultant:** Shen Milson Wilke **Facade Consultant:** R.A. Heintges & Associates **Security Consultant:** ARUP North America





**University of Washington
Student Housing
Seattle, USA**

Designed collaboratively, this scheme takes advantage of the site’s water views and bridgescapes, characteristic of the Seattle landscape. Creating 930 bed spaces and 165 car parking spaces, the apartments are organised around routes of vertical circulation embedded in ‘fingers’ of accommodation. The public realm takes students to key circulation routes from their apartments, and is animated by communal spaces such as the coffee shop, laundry, and shared music and study rooms.

Address: Seattle, Washington, USA
Status: Completed, September 2013
Size: 38,152 m²
Type: Student housing

Client: University of Washington **Architect:** Feilden Clegg Bradley Studios **Main Architect:** Ankrom Moisan Associated Architects **Landscape Consultant:** Gustafson Guthrie Nichol **MEP Engineer:** Glumac



SOUTH AMERICA

The long-term legacy of London's skill and experience developed through planning and delivering sites, venues and landscape for the 2012 Olympic Games have been most recently seen in the creative solutions applied to the Rio 2016 Olympic Park. Here the capital's firms have been involved in both masterplanning and designing world class sporting facilities, often to be transformed for new future uses.



© Nigel Young



Buenos Aires Ciudad Casa de Gobierno Buenos Aires, Argentina

Designed to make a positive environmental and social impact, this new city hall for Buenos Aires includes offices for the Mayor and 1,500 employees, and combines environmentally efficient design with a highly flexible internal arrangement of terraced office floors. Every aspect of the scheme was designed in response to the local climate, including the east and west facades shaded by a screen of louvres rising the full height of the building.

Address: Uspallata 3160, Buenos Aires, Argentina

Status: Completed, 2015

Size: 34,702 m²

Type: Civic building

Client: CRIBA S.A **Architect:** Foster + Partners **Collaborating Architect:** Berdichevsky Cherny Arquitectos and Studio Minond
Main Contractor: CRIBA S.A. **Structural:** Curutchet-Del Villar Ingenieros Civiles **Cost:** CRIBA S.A. **ME:** Estudio Grinberg
Landscape: Estudio Marta Carena **Lighting:** Eli Sirlin

Rio Olympic Handball Arena Rio de Janerio, Brazil

Drawing on experience in the delivery of temporary buildings at the London 2012 Olympics, this project is an example of ‘nomadic architecture’: transforming a temporary structure into new permanent uses. Components of the Rio arena have been dismantled and transported to four separate locations, to be rebuilt into state schools. The main elements that were reusable were the roof, reconstituted timber rain-screen cladding, structural steel and disabled ramps, which will form the shells of the schools.

Address: Barra da Tijuca, Rio de Janeiro, Brazil
Status: Completed, November 2015
Size: 25,000 m²
Type: Sport, school, housing

Client: Rio 2016 Consortium **Project Rio 2016:** Lopes, Santos & Ferreira Gomes Arquitetos, OFICINA de Arquitetos, And Architects, MBM Serviços de Engenharia e DW Engenharia
Structural Engineer: Metálica, Alpha Engenharia, Fundações e Concreto, SF Engenharia **M&E Consultant:** DW Engenharia, MBM Engenharia **Quantity Surveyor:** José Raymundo F. Gomes **Lighting Consultant:** Peter Gasper **Main Contractor:** Dimensional Engenharia



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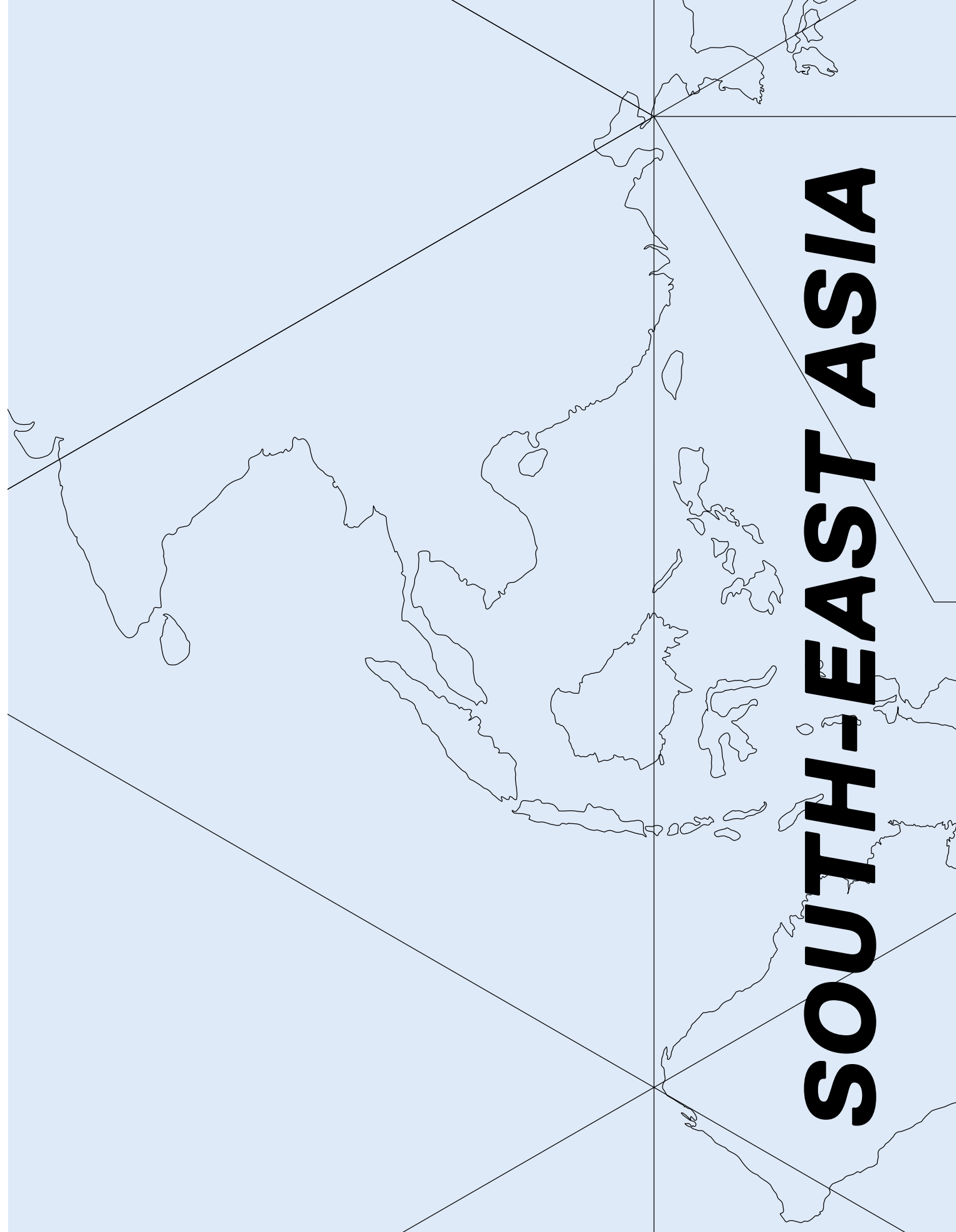
Rio 2016 Olympic and Paralympic Games Rio de Janeiro, Brazil

The design of the Rio Olympic Park used multidisciplinary skills and knowledge and draws on international experience in masterplanning and sports venue design, including most recently from London 2012. It included 120 hectares of land located southwest of Rio de Janeiro, and hosted more than 150,000 spectators on peak days. A new neighbourhood and a centre of sporting excellence will be developed thanks to the supporting transport, utility and social infrastructure.

Address: Rio de Janeiro, Brazil
Status: Completed, 2016
Size: 1,200,000 m²
Type: Masterplan

Masterplanner, Architect, Structural Engineer, Landscape Design, Transport: AECOM
International Broadcast Centre: Daniel Gusmão **Sustainability:** Useful Simple Projects
Landscape: Fernando Acyilino **Aquatics Centre:** Pujol Architects **COT Halls:** WilkinsonEyre, Arqhos **Velodrome:** Daniel Gusmão, Blac





SOUTH-EAST ASIA

Rapid urbanisation is especially apparent in South and South East Asia. Millions of houses, facilities and infrastructure will be needed in the coming decades to meet the needs of growing urban populations. London's experience in planning and designing sustainable cities is brought to the fore in many projects in this region. These also draw on the capital's distinctively collaborative approach and reputation for innovative, high-tech and low-energy schemes that respond sensitively to local cultures and climates.



Aga Khan Academy Dhaka, Bangladesh

A 1,200-student academy, this scheme aims to support long-term national and regional development through an international standard of education and strong leadership experience. Designed with low-energy solutions to respond to climatic challenges, the scheme comprises teaching buildings and residences sitting around a central sports field, linked by a colonnade, and landscape courtyards of varying character.

Address: Dhaka, Bangladesh

Status: Under construction, due to complete 2020

Size: 34,000 m²

Type: Education

Client: The Aga Khan Academies (AKDN)

Architect: Feilden Clegg Bradley Studios with Shatotto **Structural Engineer:** AKT II and Shatotto **M&E Design:** Max Fordham and EMCS Dhaka **Landscape Architect:** Grant Associates and Shatotto

Khyaung School Khyaung Village, Cambodia

A sustainable and cost-effective school building in rural Cambodia, designed to respond to local environmental requirements with a distinctive roof form providing solar shading to the classroom walls and a shaded area for smaller informal classes. As part of an ambitious international project to foster an on-going relationship with the local community, the London-based practice, which has worked extensively with London school children, has now engaged in an exchange of ideas and knowledge in Khyaung.

Address: Khyaung Village, Kampong Cham Province, Cambodia

Status: Under construction, due to complete 2017

Size: 440 m²

Type: Education

Client: Building Trust International **Architect:** Weston Williamson + Partners

Engineer: Engenuiti





Ulsoor Lake vision and implementation strategy Bangalore, India

Re-establishing this historic reservoir at the heart of Bangalore’s communities, this project creates a model for engagement and governance to return the lake to drinking water quality. Collaborative skills in engineering, transport, landscape and urban design were crucial in creating a strategy that delivers lasting change, systematically enhancing the health of the whole catchment area while creating new opportunities for programming and events.

Address: Bangalore, India
Status: Design stage
Size: 400,000 m²
Type: Masterplan

Client: Prestige Group **Urban Design & Masterplanning, Landscape Architect, Infrastructure, Transport:** Arup

Tata Primanti Gurgaon, India

Located in one of India’s fastest growing cities, the Primanti masterplan in Gurgaon includes 1,060 residential units, with parks, urban spaces and amenities including a new secondary school. Using a variety of environmental analysis tools to develop a design that would respond to local conditions, the London team’s masterplan follows sustainable cities design principles while introducing new ways of living to local residents.

Address: Sector 72, Gurgaon, Haryana, India
Status: Under construction, due to complete 2017
Size: 400,000 m²
Type: Masterplan

Client: Tata Housing **Architect:** Kohn Pedersen Fox **Architect of Record:** Achyut Kantawala Associates



Indian Institute of Technology Mandi, India

Using engineering excellence from London, this eco campus on the outskirts of Mandi has state-of-the-art laboratories and workshops situated on various levels and connected via pedestrian bridges. A market square at the heart of the campus encourages social interaction. Creating a sense of place, this masterplan also aims to be an international exemplar of environmental sustainability.

Address: Indian Institute of Technology Mandi, Kamand Campus, VPO Kamand, Mandi, India
Status: Design stage, due to complete 2018
Size: 2.3 million m²
Type: Masterplan

Client: Indian Institute of Technology **Masterplanner, Architect, Landscape Architect:** BDP



Aranya Mumbai, India

Inspired by the forest, with ‘forest floor’ building podiums and a tree-like canopy over the lobby, these two 300 metre-high towers provide nearly 800 apartments. With experience in tall buildings such as 30 St Mary Axe (the Gherkin) and the upcoming 40 Leadenhall Street, the London team’s collaborative approach and sensitive incorporation of local culture were important reasons for their selection for this new residential development in Mumbai.

Address: Piramal Aranya 593, Rambhau Bhogale Marg, Byculla East, Mumbai, India
Status: Under construction
Type: Residential

Client: Piramal Realty **Design Consultant:** Make Architects **Associated Architect:** SSA Architects **Structural and Services Engineer:** BuroHappold **Facade Designer:** Inhabit **Interior Designer:** HBA **Landscape Architect:** EDSA



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University of Reading Malaysia Johor, Malaysia

Part of the Malaysian Government EduCity development, this is the first South-East Asia campus for the University of Reading. The design, by a specialist education team based in London, ensures connectivity between all campus areas while protecting the environment and meeting the challenges of the local climate. The buildings use local construction methods and materials and are inspired by the traditional Malay house.

Address: University of Reading Malaysia, Persiaran Graduan, Kota Ilmu, Educity, 79200 Iskandar Puteri, Johor, Malaysia
Status: Completed, July 2015
Size: 30,000 m²
Type: Education

Client: University of Reading **Architect:** Scott Brownrigg **Civil Engineer, Structural Engineer, Services Engineer:** AECOM
Quantity Surveyor: Rider Levett Bucknall LLP **Landscape Designer:** Gillespies



Turquoise Mountain Yangon, Myanmar

Converting one of the most important historic landmark buildings in Yangon's Downtown, the new mix of sustainable uses aims to create a model for heritage-led regeneration in the city, with young designers being trained by conservation and sustainability specialists. The grand internal spaces will accommodate a vibrant offer based on food, crafts and exhibitions with an urban forum, while a new rooftop restaurant and public garden will afford some of the best views in Yangon.

Address: Ministry of Hotels and Tourism Building, Sule Pagoda Road, Yangon, Myanmar
Status: Design stage, due to complete 2018
Size: 3,487 m²
Type: Conservation and Retrofit

Client: Turquoise Mountain **Architect:** Feilden Clegg Bradley Studios **Local Architect:** Statement Architects **Landscape Designer:** Grant Associates Environmental **Engineering Designer:** Buro Happold Ltd



KLCC Arts and Culture Hub Kuala Lumpur, Malaysia

This new cluster of tall buildings on the west side of Kuala Lumpur City Centre completes the skyline of the KLCC park with three towers connected by a podium building, forming a pinnacle to the wider masterplan. At its centre is a 700m-tall tower with a folding facade, creating an iconic form. Drawing on the London team's experience, the design is legible at street level and gives a sense of place specific to the site's context and heritage.

Address: Kuala Lumpur City Centre, Kuala Lumpur, Malaysia
Status: Design stage, due to complete 2021
Size: 125,000 m²
Type: Masterplan

Client: KLCC Property Holdings **Architect:** Kohn Pedersen Fox





Tun Razak Exchange Kuala Lumpur, Malaysia

Located on a prominent site in Kuala Lumpur City Centre, this new innovative urban and financial district features a central park, intended to unify the development and create a focal point for its diverse functions. The building massing and the masterplan were developed by the London team using advanced computer modelling to test thousands of iterations, providing a comprehensive understanding of high-performance design.

Address: 55100 Kuala Lumpur, Malaysia
Status: Design stage
Size: 35,000 m²
Type: Masterplan

Client: Malaysia Development Berhad Real Estate
Architect: Kohn Pedersen Fox

jenine@newlondonarchitecture.org 26 Sep 2017

Ascent Singapore Science Park Singapore

Developing ‘next generation’ technology and science parks through principles of intensification, diversification and urbanisation, this project creates interactive spaces that are more civic than corporate in nature. Learning from London’s expertise in innovative ways of working, a diversified network of research and business environments has been developed in ‘workspace neighbourhoods’. These are pedestrian-based with civic and educational amenities so that social and business interaction can thrive.

Address: Science Park Drive, Singapore
Status: Completed (phase I)
Size: 280,000 m²
Type: Masterplan and workspace

Client: Ascendas Land Pte. Singapore **Architect:** S333 Architecture + Urbanism **Local Executive Architect:** SAA Architects Pte **Structural Engineer:** AECOM **Landscape Architect:** Grant Associates, Earthscape Concepts Pte **Quantity Surveyor:** WT Partnership **Lighting Engineer:** Limelight Atelier **Urban Strategist:** Lawrence Barth



Early Learning Village Singapore

Creating the largest kindergarten in the world, this school is arranged as five separate buildings and is subdivided into ‘clusters’, each with four classrooms. The scheme is stacked vertically as interlocking and overlapping blocks, creating outdoor play-spaces, inspired by the playful nature of children’s building bricks. Flexible and environmentally sensitive, the campus is arranged over eight floors, animated by green walls and elevated external play-space.

Address: Singapore
Status: Under construction, due to complete 2017
Size: 50,000 m²
Type: Education

Client: Cognita Asia **Design Architect:** Bogle Architects **Local Architect:** A61 Architects **Cost Consultant:** WT Partnership **Engineering:** AECOM **Landscape:** Coen Design **Main Contractor:** Lend Lease Singapore **Early Years Educationalist:** Rosie Long **Education Design Advisor:** Professor Gary Moore





Cooled Conservatories, Gardens by the Bay Singapore

Comprising three separate gardens covering a total of 101 hectares, this project was central to the Singapore government’s plan to transform the city-state into a City-in-a-Garden. A British-led team won the design competition for Singapore’s Gardens by the Bay masterplan, one of the most ambitious cultural projects of recent years. Cross-disciplinary collaboration was key to the delivery of the project – the architecture, structural design, environmental engineering and horticulture are fully interdependent.

Address: Singapore 01895318, Marina Gardens Drive
Status: Under construction, due to complete 2020
Size: 117,650 m²
Type: Cultural

Client: National Parks Board Singapore (NParks)
Architect: WilkinsonEyre **Masterplanners & Landscape Architect:** Grant Associates **Structural Engineer:** Atelier One **Building Service Engineer:** Atelier Ten

School of Design and Environment Singapore

For a design school with an emphasis on energy-efficient technologies, this building had to embody the principles it espoused and be an exemplar to the students, faculty and extended design community. Proposing five distinct spaces for collaborative learning, this project rethinks some of the standard architectural solutions to educational buildings, including a circulation strategy that helps to set up unexpected meetings among students and faculty members.

Address: 4 Architecture Drive, Singapore 117566
Status: Under construction, due to complete 2018
Size: 8,500 m²
Type: Education

Client: National University of Singapore **Design Architect:** Serie Architects, Multiply Architects & Engineers **Executive Architect:** Surbana Jurong **Structure, MEP Engineering and Cost:** Surbana Jurong **Climate Engineering:** Transsolar Klima Engineering



Singapore High-Speed Rail Terminus Singapore

The Singapore terminus of the new Kuala Lumpur-Singapore High Speed Rail will form an integral part of the Jurong Lake District and an iconic above-ground focal point that marks this new international gateway. In order to cope with incredibly high passenger numbers, these stations pioneered airport-style segregation of arriving and departing passengers. Experience from London’s One Embankment Place of an innovative structural approach to achieve large scale multi-dimensional development over the tracks at Charing Cross Station informed the development of the project.

Address: Singapore
Status: Design stage
Type: Transport and Infrastructure

Client: Land Transport Authority **Architect:** Farrells **Structural Engineer and Lead Consultant:** AECOM



Singapore Sports Hub Singapore

Located on a 35-hectare waterfront site, this is Asia’s first integrated sports, leisure and entertainment destination. It includes a new national stadium with a movable roof, an Olympic-standard aquatic centre, a multi-purpose sports hall, sports library and museum, as well as retail, restaurants and entertainment space. London based specialist consultancy groups were tasked to develop solutions to complex problems, such as those presented by the Singapore environmental conditions, and provide new standards for adaptability and social integration.

Address: Singapore
Status: Completed, August 2014
Size: 350,000 m²
Type: Sport

Client: Dragages/HSBCSingapore Sports Hub **Design Team:** Arup, DP Architects, AECOM **Masterplan:** DP Architects, Arup, AECOM **M&E:** Arup, Spuire Mech **Landscape Architecture:** AECOM



State Courts Complex Singapore

Housing over 60 courtrooms and more than 50 hearing chambers, the new Singapore State Courts is a 178 metre-high new build tower designed to express to the city the public activity of justice. Working with multiple stakeholders and interest groups on a difficult urban site, the project demonstrates an ability to tackle complex, high-profile public commissions with strict budgetary and regulatory demands.

Address: 1 Havelock Square, Singapore 059724
Status: Under construction, due to complete 2019
Size: 113,000 m²
Type: Civic building

Client: State Courts Singapore **Design Architect:** Serie Architects, Mply Architects & Engineers **Executive Architect:** CPG Architects **Structural, MEP Engineering, Cost:** CPG Consultants **Facade Consultant:** HCCH **Landscape Architect:** Plantwerkz



British Council Colombo Colombo, Sri Lanka

Restoring the historic villa of the British Council’s headquarters in Colombo, this scheme includes a library extension, a landscaped courtyard and two contrasting pavilions. Reinterpreting indigenous architectural responses to the climate and creating a design that responds to sunlight, ventilation and control of rainwater, the London team created a functional design, sensitive to its location, using building forms and construction techniques appropriate to the region.

Address: 49 Alfred House Gardens Colombo 3 Sri Lanka
Status: Completed, May 2016
Size: 1,000 m²
Type: Cultural

Client: The British Council **Architect:** Jestico + Whiles
Contractor: L.H. Piyasena & Company Pvt. Lt



Imagine Pilai
Phuket, Thailand

Using 3D technology and advanced visualisation tools, this project created an overarching design concept developed in London for the masterplan of a luxury villa resort, which then involved collaboration with local architects on delivery. Located on Thailand’s west coast, adjacent to the famous long sand beaches, this resort provides leisure spaces and activities inside a large green park that meanders to the sea.

Address: Natai Beach, Phuket, Thailand
Status: Under construction
Size: 6,720 m²
Type: Residential

Client: Phoenix Prime **Architect:** PHASE3 Architecture and Design



Taoyuan Airport T3
Taoyuan, Taiwan

With a single-span, loose-fit volume recalling that of London's Heathrow Terminal 5, and with a flowing sequence of interior spaces, this airport and the connected open spaces form a new compact city. The dynamic and fluid architecture allows for easy adaptation and future transformation of the airport functions without compromising the passenger experience or the architectural integrity.

Address: Taiwan Taoyuan International Airport, Dayuan District, Taoyuan 33758
Status: Design stage, due to complete 2020
Size: 640,000 m²
Type: Transport

Client: Taoyuan Airport Corporation **Architect:** Rogers Stirk Harbour + Partners, Fei & Cheng Associates **Landscape Design:** Gillespies
Structural Engineer: Arup and CECI Engineering Consultants **Transport Consultant:** OTC Limited **Baggage Handling Consultant:** BNP Associates **Retail Architect:** The Design Solution **Aviation Services:** Fraport **Transport Consultant:** OTC Planning and Design



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Abu Dhabi International Airport, Midfield Terminal Complex – p.168
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Allies and Morrison

Allies and Morrison is an architecture and urban planning practice with a reputation for well-crafted buildings and thoughtful placemaking. They have played a key role in many of the projects that have shaped London’s position as a global city ranging from King’s Cross Central to the 2012 Olympic Games and legacy. The practice of 330 speaks over twenty languages and has worked in fifteen different countries. The range of this work spans from groundbreaking urban projects such as Msheireb Downtown Doha to major commercial developments in North America to large-scale urban strategies for cities in the Far East.

Featured projects:
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Amos Goldreich Architecture

A London-based architectural practice with an international reach, Amos Goldreich Architecture specialise in buildings that provide enlightened and inspiring shelter for those inhabiting them. Their work spans internal refurbishments and extensions of existing buildings, as well as new-build projects in the UK and internationally, achieving globally recognised accolades. Uniquely placed to add value to a client’s project by listening, collaborating and never imposing a preconceived idea or style, their objective is always to marry the pragmatic with the aesthetic in a way that results in buildings and places that have a positive impact on people’s lives and are a joy to experience.

Featured project:
The Shelter for Victims of Domestic Violence – p.149



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AndArchitects

AndArchitects are a Battersea based architectural practice who were born out of the sport and stadia sector and established in 1998. AndArchitects have excellent experience in the sports, hospitality and commercial sectors working on numerous commissions in the UK, Europe and South America for both British and overseas clients. They have worked on six temporary buildings for the London 2012 Olympic Games and are looking to export the experience gained over the last eight years, working on London and Rio, to Japan. They were finalists in the BD Sports and Leisure Architect of the Year Awards in 2017. Clients include premiership football and rugby clubs, international banks, hotel groups, local authorities, government bodies and private individuals.

Featured project:
Rio Olympic Handball Arena – p.192

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Arney Fender Katsalidis

Arney Fender Katsalidis enables people to live, work and play better. They do this by creating beautiful buildings and inspirational interiors. They are a boutique global design firm with an integrated approach to architecture, interiors and art, based in London and operating across six regions. They have a specific focus on workplace, residential and cultural sectors to ensure they are specialists in what they do. Globally, Arney Fender Katsalidis’ 200 design professionals work from London, Melbourne and Sydney and have built a leading reputation in client service and design excellence. They operate as one firm, sharing their experience, people, financial resources and creative capital.

Featured project:
Brookfield Place – p.175

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Arup

Arup is an independent firm of designers, planners, engineers, consultants and technical specialists, working across every aspect of today’s built environment. With more than 13,000 people in 92 offices across 40 countries, Arup is the creative force at the heart of many of the world’s most prominent projects in the built environment and across the industry – from masterplanning conscious development in the Seychelles to designing stadiums in Singapore. Together we help our clients solve their most complex challenges – turning exciting ideas into tangible reality as we strive to find a better way and shape a better world.

Featured projects:
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Seychelles Strategic Land Use and Development Plan and Victoria Masterplan – p.53
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Ulsoor Lake vision and implementation strategy – p.198

ARUP

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Arup Associates

Arup Associates is the architecture practice within the international consulting engineering group Arup. We collaborate with Arup specialists to deliver ‘Total Architecture’ – buildings and places where authorship is shared across disciplines. Supported by Arup’s global offices in over 40 countries, the practice delivers specialist consultancy and lead architecture across a wide range of geographies and sectors including sport, transport, science and industry and commercial buildings. We provide beautiful, technologically advanced design that is appropriate, economic, and sensitive to environmental and human needs.

Featured projects:
Cityringen Metro – p.111
Elizabeth Quay Bridge – p.58
Khalifa Tennis Complex – p.161



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Aukett Swanke

Aukett Swanke is an award-winning architecture and interior design practice defined by its collegiate and interactive approach to design and delivery. Blending cross-sector experience with market leading R+D, the studio prides itself on establishing a creative collaboration with clients, project teams and major stakeholders. Schemes range from placemaking masterplans, agile and people focused architecture to enlightening interior spaces. Encompassing over 60 years of continuous professional experience, Aukett Swanke has a network of over 450 staff in 14 offices across six countries: UK, Germany, Russia, Turkey, UAE, Czech Republic. The studio’s expertise includes work in mixed-use, commercial office, hotel, retail, residential, education and healthcare sectors, as well as workplace consulting.

Featured projects:
Arcus III – p.75
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Residential Towers and Mixed Use Podium, Perm – p.78



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BDP

BDP designs and creates inspiring places for people. With over 900 architects, engineers, designers and masterplanners they work from studios throughout the UK, Ireland, Netherlands, Middle East, India and China. Founded in 1961, BDP is now one of the best known interdisciplinary practices in the world and has won over 1,000 awards for design quality. Collaborating with clients to realise aspirations and placing the user at the heart of the design process, they create places and spaces that energise and nurture the people who use them.

Featured projects:
American School of Paris – p.114
Acapulco Masterplan – p.67
Avon River Precinct Framework – p.64
Backaplan Masterplan – p.136
179 East Nanjing Road – p.91
Indian Institute of Technology – p.199
Jiangbei Nanjing Library – p.90
Livat Shopping Mall Wuxi – p.97
Mega Teply Stan – p.75
Nanjing Medical University – p.89
National Children’s Hospital – p.120
Paleiskwartier – p.130
Sabah Al Ahmad Cultural Centre – p.151
Suzhou District – p.96
The Well – p.178
Xi’an Jiaotong, Liverpool University South Campus – p.96



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Benedetti Architects

Benedetti Architects formed in 2016 following 20 years of award-winning success as McDowell+Benedetti. Client-focused, their energy for collaboration is used to tease-out fresh solutions that add value to an international reputation for innovative design excellence. A breadth of design expertise covers many scales, with one constant – it takes a good client to make a great project. Having built long-standing relationships with a range of public/private sector clients they are appreciated for their ability to listen, their clear-thinking and their enthusiasm. They have won many prestigious awards and have been published widely. Renato Benedetti’s public roles include Design Review Panels in London for Southwark, Wandsworth, Lewisham and Design Council CABE. He’s a RIBA client advisor/competition judge, on the Architecture Club committee and was on London Festival of Architecture’s founding committee.

Featured project:
Terni Train Station and Bridge – p.124



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Benoy

Benoy is an internationally recognised studio of architects, masterplanners, interior and graphic designers. Founded in 1947 in the UK, the firm has been building on its philosophy that good design not only defines how people view a place, but more importantly how they experience it. With a reputation for delivering design excellence across the globe, the Benoy Team works in more than 80 countries from a network of 11 studios. Specialised across the sectors, Benoy’s remit embraces a range of work including Retail, Mixed-Use, Commercial, Leisure and Hospitality, Transport, Aviation, Residential, Urban Regeneration and Masterplanning. This year Benoy celebrates its 70th anniversary.

Featured project:
Royalmount – p.176

Benoy

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Bogle Architects

Bogle Architects is an award-winning architecture and design studio founded in 2012. With studios in London and Prague, and a further office in Hong Kong, the practice is engaged in a wide range of domestic and international projects. The team comprises a creative group of individuals designing and building progressive and imaginative architecture. The portfolio is diverse in location and sector, offering innovative design solutions that unlock challenging sites, significantly enhancing value for clients. The practice’s philosophy is based on clarity of thought, wide engagement and a collaborative design process in order to realise a common goal.

Featured projects:
Early Learning Village – p.203
Extreme Light Infrastructure (ELI)
Beamlines Facility – p.110

Bogle Architects

London | Prague | Hong Kong

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Broadway Malyan

Broadway Malyan is a global architecture, urbanism and design practice. Distinguished by their global reach with 16 studios across the world, unrivalled diversity with 500+ design experts and distinctive client focus with over 75% income from repeat business, they create world-class and fully-integrated cities, places and buildings to unlock lasting value. Everything that is planned, designed and built is about people. Always focused on creating buildings and places that will enrich the lives of the people who use them, they achieve nothing without excellent partnerships with the people who make delivering them possible.

Featured project:
Plano Director Geral Metropolitano de Luanda – p.43

BroadwayMalyan^{BM}

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Chapman Taylor

Chapman Taylor is a leading international architectural practice with a diverse portfolio stretching across five continents and with affiliate studios in 17 locations. The practice designs creative and successful places and spaces within a range of core sectors; retail, workplace, residential, leisure and hospitality and transportation. Founded in 1959, the practice has worked on a number of large scale masterplans, urban design projects and regeneration of town centres across the world and continues to create uplifting and timeless architecture. Their work has won over 200 global design awards.

Featured project:
Büyükyali – p.141



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Conran and Partners

Based in London and Brighton, Conran and Partners work across all scales from masterplanning and urban regeneration to bespoke buildings and interior design. Outside the UK, the practice has an active focus in Central Europe and Turkey, where it is currently designing a range of hotels for local and global brands. Last autumn Conran and Partners completed their first project in the UAE with the opening of a new restaurant concept in Dubai Marina. The practice is well established in Asia, having been involved with many iconic projects in the residential, hospitality and retail sectors. In Japan, it was the lead architect on Tokyo’s largest masterplan, Futako Tamagawa, Roppongi Hills Residences and Niki Club. In Hong Kong, past projects include designs for Hotel Icon, the Police Married Quarters and Mandarin Oriental. They are also the interior designers for two new Park Hyatt’s in Jakarta and Auckland, due to open in 2018.

Featured project:
Futako Tamagawa – p.99

CONRAN+ PARTNERS

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Dexter Moren Associates

Celebrating 25 years in business, Dexter Moren Associates are architecture and interior design specialists, working across the hospitality spectrum. With an internationally established reputation, they place a design-led ethos of ‘creating places people want to stay’ at the heart of everything they do. Providing an individual approach to each project, they are passionate, commercially astute and committed to producing buildings and interiors that respond to their context. Recent projects include Hilton London Bankside, InterContinental Lisbon and Otkritie Arena, Moscow. Current projects include The Curtain Hotel Shoreditch, two Aldgate hotels and a dual branded hotel in Cape Town, South Africa.

Featured project:
Tsogo Sun Hotel – p.54

dexter moren associates

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Donald Insall Associates

Donald Insall Associates is a leading conservation architecture practice and historic buildings consultants. They have nearly 60 years of experience in the care, repair and adaptation of historic buildings and places, together with designing new buildings for sensitive sites. Pioneers in approaching conservation as a catalyst for regeneration and renewal, they use expertise and deep-rooted understanding of historic buildings to guide and support new interventions. A positive and proactive approach towards managing change in the historic environment has made them trusted advisors and partners to a diverse range of clients, from large landowners and institutions to small charities and homeowners.

Featured projects:
Red House – p.70
Stollmeyer’s Castle – p.70

Donald Insall Associates

Chartered Architects and Historic Building Consultants

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Elementa Consulting

Elementa Consulting, a member of Integral Group, provide a full range of sustainable design and diverse consultancy services for projects in the UK, Europe and Middle East. Services include Mechanical, Electrical and Public Health (MEP) systems and lighting design, masterplan support, resilience consultancy, strategic sustainability, wellness consultancy and advanced energy modelling/building physics and micro-climate. Elementa operate in all sectors of the built environment including commercial, education, healthcare, mixed-use, residential, science & technology, hotels & leisure and retail. They provide sustainable, energy efficient, practical solutions for all stages of a buildings lifecycle in order to reduce costs and carbon footprint.

Featured project:
DPR Construction Net Zero Office Building – p.180

elementa

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Farrells

Farrells are internationally recognised architect-planners, with offices in London, Hong Kong and Shanghai. They have designed award-winning buildings and masterplans throughout the world for over half a century, from the refurbishment of Grade-1 listed buildings in the UK to the tallest building in the world by a British architect in China. Their specialism is high-quality, mixed-use urban complexes, often based around transport interchanges. Responsive, imaginative and skilled in design, their work is always informed by context and ‘place’. With over 50 years’ experience, including 25 years in China, they are currently designing and delivering projects throughout Europe, Asia and beyond, from residential-led sites in London to the design of the new high-speed station in Singapore.

Featured projects:
China Zun – p.83
Kennedy Town Swimming Pool – p.99
One Excellence – p.93
Shanghai Shipyard – p.91
Singapore High-Speed Rail Terminus – p.205
Wanda Shanghai Wujiaochang Plaza – p.92

FARRELLS

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Foster + Partners

Foster + Partners is a global studio for architecture, urbanism and design, rooted in sustainability, which was founded nearly 50 years ago in 1967 by Lord Foster. Since then, he and the team around him have established an international practice with a worldwide reputation for thoughtful and pioneering design, working as a single studio that is both ethnically and culturally diverse. The studio integrates the skills of architecture with engineering, both structural and environmental, urbanism, interior and industrial design, model and film making, aeronautics and many more.

Featured projects:
Al Haramain High Speed Rail – p.167
Apple Store, Union Square – p.180
Buenos Aires Ciudad Casa de Gobierno – p.191
Oceanwide Center – p.181
Xiao Jing Wang – p.95

Foster + Partners

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Gensler

Gensler is a leading global architecture, design, and planning firm with 46 locations and more than 5,000 professionals networked across the globe. For over 50 years, Gensler has been a pioneer in creating great places that enhance the quality of work and life. Founded in 1988, the London office is responsible for leading the firm’s work in the UK, Europe, the Middle East and Africa. Gensler’s multidisciplinary team comprises architects, planners, landscape architects, interior designers and brand and retail specialists, delivering a diverse set of services that strive to make the places people live, work and play more inspiring, more resilient and more impactful.

Featured projects:
The Avenues Phase III – p.150
Hyundai Capital Europe – p.117
Hyundai Capital Convention Hall – p.102
Msheireb Downtown Doha Phases II and III – p.162

Gensler

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Grimshaw

Founded in 1980, Grimshaw operates worldwide, with offices in London, New York, Doha, Kuala Lumpur, Melbourne and Sydney, employing over 400 staff. Our international portfolio covers various sectors, with substantial experience in aviation projects of all scales, leisure schemes, transport, offices, education, sports, the industrial sector and masterplanning. The practice believes in its responsibility for its work to contribute to worldwide environmental improvement and sustainability. In 2000, Grimshaw became the first major architectural practice to meet the ISO14001 environmental management system standard.

Featured projects:
Duke University West Union – p.185
Los Angeles Union Station Masterplan – p.179

GRIMSHAW

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Hawkins\Brown

Hawkins\Brown is an internationally renowned award winning practice of over 250 architects, interior designers, urban designers and researchers. They bring a wealth of experience designing and delivering innovative and socially sustainable buildings across multiple sectors. People are at the heart of everything they do, from their design approach to the way the studio runs. Talented designers bring a fresh and collaborative approach to each new design challenge, creating places with personality and purpose that are well-made, well-used and well-loved. They have been producing buildings of a consistently high quality for a wide variety of clients.

Featured projects:
Garage Theatre – p.121
Paradise City – p.100



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HOK

HOK is a global design, architecture, engineering and planning firm, using design to enrich people’s lives and help organisations succeed. 1,700 people collaborate across a network of 23 offices on three continents. Their mission is to deliver exceptional design ideas and solutions for clients through the creative blending of human need, environmental stewardship, value creation, science and art. Design solutions result from a collaborative process that encourages multidisciplinary professional teams to research alternatives, share knowledge and imagine new ways to solve the challenges of the built environment.

Featured projects:
Baku Flame Towers – p.73
Barcelona Arena – p.133
LG Science Park – p.102



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Jestico + Whiles

Jestico + Whiles is an employee-owned international architecture and interior design practice. A talented team of 120 are employed from the main London studio and a second in Prague, with cross-transfer of skills between the studios, completing major projects throughout the UK and across the world. As the world shrinks, Jestico + Whiles has broadened its design horizons with projects from Sierra Leone to Tbilisi, Ekaterinburg to Melbourne and all points between. The practice is currently working on a number of high profile projects internationally, including the Zuri Hotel & Resort on the African island of Zanzibar, education projects in the Middle East and the Colombo British Council building.

Featured projects:
British Council Colombo – p.207
British School Muscat – p.153
Doha College – p.159

jestico + whiles

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John McAslan + Partners

John McAslan + Partners is a leading, award-winning international architectural practice based in London, with further offices in Edinburgh and Doha. An extensive portfolio of award-winning projects in the UK and overseas includes cultural, heritage, infrastructure, hospitality, commercial, residential, education, urban design and landscape sectors. An international portfolio includes the redevelopment of the historic Stanislavsky and Bolshevik Factories in Moscow, the British Embassy in Algiers and the restoration of the Iron Market in Port-au-Prince, Haiti, as well as 16 projects in Doha, Qatar, such as a Cultural Forum, the first Mandarin Oriental Hotel to be constructed in the Middle East, a Mosque, a school, four Heritage Museums and a residential complex.

Featured projects:
Bolshevik Factory – p.76
Heritage House & Museum Quarter – p.160
Sacred Heart Cathedral of Kericho – p.47

JOHN McASLAN + PARTNERS

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Kohn Pedersen Fox

Programme Champion

Kohn Pedersen Fox Associates is an international architecture practice with offices in London, New York, Hong Kong, Shanghai, Seoul, and Abu Dhabi. Projects include the world’s tallest towers, longest spans, most varied programmes and inventive forms. The goal that binds their work – and what motivates their efforts – is finding the smartest solution for each project. They believe that the best design is the product of an open-minded search, one without preconceptions or stylistic formulae. Operating as one organisation with six offices and 560 staff members working on projects across all continents, each project is expected to advance the larger practice and the built environment, while answering to a very particular set of individual parameters.

Featured projects:
Abu Dhabi Airport Midfield Terminal Complex – p.169
Gemdale Ganxia Tower – p.94
KLCC Arts and Culture Hub – p.201
Parc du Millénaire – p.115
Pasifik Ciftay EGO – p.139
Tata Primanti – p.198
Tun Razak Exchange – p.202
WINDOW, La Défense – p.113
Ziraat Bank Headquarters – p.144



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LOM architecture and design

LOM is an architecture and interior design studio based in London, designing and delivering projects throughout the UK, Europe, the Middle East and Africa. Established 26 years ago the practice is currently working on office, residential and education projects for clients including HSBC, National Bank of Oman and United Arab Bank. They currently have major projects underway in Oman, Dubai, Ghana, Turkey, Qatar and Malta that total in excess of £0.5 billion in contract value. These include three landmark head offices on site in Muscat, Oman and Doha with a combined area of 181,000 sqm.

Featured projects:
Business Bay Towers – p.171
National Bank of Oman – Head Office – p.153



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MaccleanorLavington:MLA+

Maccleanor Lavington set up MLA+ in 2012 to focus on sustainable urban design and architecture in emerging markets. MaccleanorLavington:MLA+ was awarded the AJ100 International Business Breakthrough of the Year award in 2016 and now have over 120 staff in offices in the Netherlands, Russia, China and South America. MLA+ combines international experience with local knowledge. The network of offices is led by local teams on the ground to inform a contextual approach responding to each culture and place. This model creates a synergy between local expertise and international experience to provide innovative proposals to complex and challenging issues.

Featured projects:
Grey Belt Regeneration Masterplan – p.79
I am Moscow Residential Complex – p.78
Liu Xian Dong Micro Apartments – p.92
Shenzhen Bao’An G107 Corridor
Regeneration Masterplan – p.94

MaccleanorLavington:MLA+

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Mossessian Architecture

Mossessian Architecture is an international RIBA Chartered Architecture Practice. Established in London in 2005 by Michel Mossessian, the experienced team of 20 professionals is committed to architecture that adds cultural value and benefits society ‘beyond buildings’. The practice has completed landmark buildings in London and Shanghai. On-going work includes 26 buildings across the four stages of Doha’s Msheireb regeneration scheme; two office buildings within London’s King’s Cross Development; and an urban renewal project in the Medina of Fez, a UNESCO World Heritage site.

Featured projects:
Msheireb Downtown Doha, Al Barahat Square – p.162
Place Lalla Yeddouna – p.49



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ONEWORKS

ONEWORKS is a global design and consultancy firm, offering integrated architecture, infrastructure and urban engineering services. Experts in dealing with crowded spaces with extensive knowledge of diverse physical, environmental, historical and social conditions, they help create and shape dynamic places. With over 20 years’ experience and an Italian heritage, they continue to place high-quality design at the centre of their multidisciplinary collaborations. They work from six strategic locations across the globe, with design headquarters in Milan and offices in London, Rome, Venice, Dubai and Doha. From these locations, a team of over 150 architects, designers and engineers provide a flexible and stable approach to the design and delivery of projects worldwide. Their work succeeds because of the collaborative ethos and an understanding of a client’s aspirations, allowing them to offer truly integrated design solutions across a range of different sectors.

PHASE3 architecture and design

PHASE3 is an innovative international architecture and design practice based in London. They employ a holistic approach to delivering high quality and avant-garde buildings. Over the years they have developed a growing portfolio of exciting projects which vary in scale and function in both Europe and the Middle-East. PHASE3 is based in London, but has extensive experience coordinating design teams both locally and internationally, allowing for a large network of consultants. In addition to practicing, their Director has been teaching at the Architectural Association in London since 2005 and is connected to an established international design community.

Featured project:
King Abdul Aziz Road (KAAR) Urban Development Project – p.165

ONEWORKS:

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PHASE3

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Reardonsmith Landscape LLP

Reardonsmith Landscape LLP work with architects and clients in the UK and overseas to provide landscape and public realm design services, ranging from feasibility and concept masterplanning; planning submissions and detailed design; plant selection; procurement advice and construction. International projects include: Tun Razak Financial Exchange, Kuala Lumpur Masterplan, The Address Hotel Bahrain, Private Villa Lagos, Porto Montenegro, Jasper Hotel Abuja, Limassol Marina Village Cyprus, Ritz Carlton Astana, Adare Manor Hotel & Golf Resort Ireland

Featured projects:
Adare Manor Hotel and Golf Resort – p.119
Porto Montenegro – p.126

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Scott Brownrigg

Scott Brownrigg is an award-winning international design practice providing architecture, masterplanning, urban design, interior design and town planning services and is ranked within the top 20 architectural practices in the UK, and within the top 100 globally. Scott Brownrigg’s headquarters are located in Covent Garden, London, with UK studios in Guildford, Cardiff and Edinburgh and international studios in New York, Singapore, Hong Kong, Moscow and Zagreb. This geographic spread, supported by strategic alliances in the Middle East, enables the practice to serve its growing international client and project base.

Featured projects:
Istanbul New Airport – p.143
University of Reading Malaysia – p.200

SCOTT BROWNRIGG

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Serie Architects

Serie is an international practice specialising in architecture, urban design and research. The work of Serie is known for its spatial intelligence, formal elegance and contextual engagement. Serie is led by Christopher Lee and the portfolio of work includes projects in the UK, Singapore, India, China, and the Middle East, and has been based on a series of high profile design competition successes. Founded in 2008 by Christopher Lee in London and Kapil Gupta in Mumbai, India, Serie maintains offices in London, Mumbai, Singapore and Beijing.

Featured projects:
Jameel Art Centre – p.171
School of Design and Environment – p.205
State Courts Complex – p.206



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Spacehub Design Ltd

Spacehub is a young, innovative and passionate practice specialising in landscape architecture, urban design and ecology. Based in East London, the practice is led by Giles Charlton and Tom Smith. Working primarily in the UK, they have established a growing reputation for delivering high-quality designs at a range of scales, from major planning applications such as The Goodsyard in Shoreditch, to the delivery of prominent public realm schemes such as London Wall Place in the City of London. As the practice grows they are looking to extend their international reach, as demonstrated by the work for Ferrexpo plc in Ukraine.

Featured project:
Ferrexpo Yeristovo Mine – p.146



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Squire and Partners

Squire and Partners bring over 40 years’ experience in delivering cultural, commercial and residential-led proposals for an international market, which achieve a sustainable mix of uses, as evidenced by prestigious developments for clients such as Msheireb Properties, Qatari Diar and The British Council. The practice’s approach ensures architecture is rooted in its location culturally and physically by responding to the unique heritage and context of a site, considering geography, climate, existing urban grain and established uses. They have a strong track record of working within the constraints of national planning guidelines in various countries, having developed complex projects in Africa, The Middle East and Russia.

Featured projects:
Alburouj Park – p.44
The Soyuz Project – p.77
Trinity Place – p.80

SQUIRE & PARTNERS

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Steer Davies Gleave

Steer Davies Gleave believe that transport can change the world and have spent over a quarter of a century investing in pioneering transportation planning techniques, developing the skills of specialist staff. Their biggest investment is in developing relationships. Whether that’s with clients, partners or industry associations, where they help to shape and define the transport markets they work in. Steer Davies Gleave is a transport consultancy business that is sustained by a shared inspiration. And it is this that fuels the ambition to provide unrivalled advice that helps deliver better transport solutions to everyone, everywhere.

Featured projects:
City of Toronto Wayfinding and
Information system – p.177
Orange County Complete Street Initiative – p.179



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Studio RHE

Studio RHE was formed to do something different. And it worked. Today they have over 15 major design awards, over 50 architectural projects around the world. They are based in central London in the heart of this creative metropolis where they benefit from exposure to a multitude of new ideas, products and possibilities. They have been working internationally since the inception of the practice in 1997, with first hand direct on-site experience of the projects throughout the procurement stages.

Featured projects:
Lido Mar – p.126
Six Senses Zil Payson – p.53



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Studio Seilern Architects

Studio Seilern Architects (SSA) is a London-based design practice established in 2006 by Christina Seilern. The portfolio of built work and subsequent awards span the UK, Europe and Africa. SSA is an international creative workshop where ideas are developed through dialogue; each project’s inherent character is developed through a process of rigorous enquiry and analysis. This process is a three-dimensional grid made of a matrix of people, tools, and project constraints. They believe in the definition of the solution, backed with solid professional experience of built work.

Featured projects:
Boksto 6 – p.124
Gota Dam House – p.51
Gütsch Restaurant – p.137
Jabi Lake – p.52
West 21st Street Tower – p.183

STUDIO SEILERN ARCHITECTS

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ÜberRaum Architects

ÜberRaum is an award-winning firm of architects based in central London. They strive to create spaces where human beings feel comfortable, inspired and at home. Their belief is that the better people feel, the more they can be themselves. So they measure success, not just in numbers, but in terms of shining eyes, racing pulses, gasps of wonder and wide grins of delight. To put it in another way: they design happy people.

Featured projects:
Cloud Cuckoo House – p.118
Old Town Residence – p.73
Three Rivers Masterplan – p.74



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Waugh Thistleton Architects

Waugh Thistleton delivers a wide range of building types, including affordable housing, private residential projects, offices and commercial spaces, mixed-use, and cultural and leisure. Their commitment to timber construction has earned them an international reputation in environmentally sustainable architecture and design. Collaborating closely with clients, consultants, contractors and key stakeholders on each project, the architecture they produce is responsive, original and intelligent. As well as being immersed in design and construction, they run research projects, teaching and experimenting in timber with full time timber engineers and the many PhD and Masters students that collaborate with them.

Featured project:
Aubervilliers – p.112

WAUGH THISTLETON ARCHITECTS

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Weston Williamson + Partners

Weston Williamson + Partners is an award-winning architectural and urban design practice with a wide variety of projects in the UK and abroad. Specialist knowledge and design experience over 30 years enables elegant and considered solutions for clients including HS2, Crossrail 1 & 2, TfL and DLR, along with many residential and mixed-use companies. London’s new infrastructure is recognised as helping regeneration and encouraging development and is of interest to cities worldwide who are keen to learn from them. They are currently working in Australia and Singapore.

Featured projects:
Forrestfield Airport Link – p.59
Martin Place – p.60
Pitt Street South OSD Development – p.62

WestonWilliamson+Partners

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WSP

WSP is one of the world’s leading engineering professional services consulting firms. Dedicated to local communities and propelled by international brainpower, they are technical experts and strategic advisors including engineers, technicians, scientists, architects, planners, surveyors and environmental specialists, as well as other design, program and construction management professionals. They design lasting solutions in the property & buildings, transportation & infrastructure, environment, industry, resources (including mining and oil & gas) and power & energy sectors as well as project delivery and strategic consulting services. With 7,100 talented people in over 60 offices across the United Kingdom, they engineer projects that will help societies grow for lifetimes to come.

Featured project:
Gemdale Ganxia Tower – p.94



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Zaha Hadid Architects

Zaha Hadid Architects is a global leader in pioneering research and design investigation. Collaborations with corporations that lead their industries have advanced the practice’s diversity and knowledge, whilst the implementation of state-of-the-art technologies has aided the realisation of fluid and dynamic architectural structures. Hadid’s vision redefined architecture for the 21st century and captured imaginations across the globe. Her legacy endures within the DNA of the design studio she created. The practice recently completed the Salerno Maritime Terminal in Italy, the new Port House in Antwerp, Belgium, and the Mathematics Gallery at London’s Science Museum. ZHA is currently working on a diversity of cultural, academic, sporting and infrastructure projects across six continents

Featured projects:
Dongdaemun Design Plaza – p.101
Leeza SOHO – p.84
Port House – p.106



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PROGRAMME CHAMPIONS AND SUPPORTERS

Diamond Schmitt Architects

Programme Champion



Diamond Schmitt Architects is a leading architectural studio based in Toronto with an international reputation for design excellence.

The company is rated among the top 100 architecture firms in the world by Building Design (UK), which also ranks the studio among the world's top ten in the cultural sector for works including the New Mariinsky Theatre in St. Petersburg, Russia, the Four Seasons Centre in Toronto and Maison Symphonique in Montreal.

Diamond Schmitt Architects' extensive portfolio comprises academic buildings for both teaching and research, libraries, performing arts centres, residential and commercial communities, life science facilities, research laboratories and hospitals.

The practice is in receipt of more than 250 awards for design, including seven Governor General's Medals for Architecture, American Institute of Architects (AIA), Royal Architectural Institute of Canada (RAIC), Civic Trust Awards, and Architectural Record's Good Design is Good Business Awards.

Current projects include the new David Geffen Hall for the New York Philharmonic at Lincoln Center in New York City; the National Arts Centre transformation in Ottawa; the new campus of Emily Carr University of Art and Design in Vancouver; and the master plan and buildings for North America's largest urban development, Vaughan Metropolitan Centre. The firm is shortlisted for the United Kingdom Holocaust Memorial.

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Kohn Pedersen Fox
Programme Champion



Kohn Pedersen Fox Associates is an international architecture practice with offices in London, New York, Hong Kong, Shanghai, Seoul, and Abu Dhabi. Projects include the world’s tallest towers, longest spans, most varied programs and inventive forms. The goal that binds thier work – and what motivates efforts – is finding the smartest solution for each project. They believe that the best design is the product of an open-minded search, one without preconceptions or stylistic formulae.

Their buildings make contributions to the built environment that go beyond their physical footprint. The aspirations that shape the designs include optimizing programmatic functions, strengthening the

urban context, promoting sustainable environments, advancing the commercial success of development strategies, and creating beautiful buildings that reflect and inspire the communities they serve. They work closely with clients to balance these forces and to capitalize on the benefits of multidisciplinary thinking.

Operating as one organisation with 6 offices and 560 staff members working on projects across all continents, the best designs occur when individuals come together, challenging each other to invent new techniques and search for new expressions. Each project is expected to advance the larger practice and the built environment, while answering to a very particular set of individual parameters.

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The Mayor of London sets the budget and is responsible for making London a better place for everyone who visits, lives, or works in the city. The Mayor is elected every four years. The current Mayor is Sadiq Khan, elected in 2016. The Mayor’s role as the executive of London’s strategic authority is to promote economic development and wealth creation, social development, and improvement of the environment. The Mayor also has various other duties in relation to culture and tourism, including responsibility for Trafalgar Square and Parliament Square. The Mayor is the elected voice of the capital and champions London and Londoners at home and abroad.

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The Royal Institute of British Architects champions better buildings, communities and the environment through architecture and their members. They provide the standards, training, support and recognition that put members – in the UK and overseas – at the peak of their profession. With government, they work to improve the design quality of public buildings, new homes and new communities. They also hold one of the largest and most important collections of architectural drawings, photographs and archives in the world, and stage talks, exhibitions and events and awards (including the prestigious RIBA Stirling Prize) that help people see their surroundings in a completely new way.

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WICONA operates internationally to provide market leading solutions in both unitised and standard curtain walling, supported by an extensive range of door and window systems. An established global player in façade design and development for over 50 years WICONA has completed many prestigious projects around the world. With its rich culture of innovation, WICONA has positioned itself as a leader in providing highly energy-efficient aluminium solutions for sustainable, urban design. WICONA's people are inspired every day to solve the most complex technological challenges in aluminium façades, providing planners, architects, contractors and clients with the means to achieve their ambitions.



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New London Architecture (NLA) is London’s centre for discussion, debate and information about architecture, planning, development and construction in the capital. Our mission is to bring people together to shape a better city.

A year-round programme of events, research, exhibitions and awards examines all issues affecting London’s built environment and invites all those with a stake in the future of the city to have their say - built environment professionals, politicians and the public.

NLA has established itself over the last decade as a broker between all those involved in planning and designing the future of London and as an independent champion for the capital’s built environment.

Our work is supported by a growing membership of some 500 organisations from across the public and private sectors. The NLA galleries at The Building Centre in WC1, centred around our giant interactive model of central London, are free to visit six days a week.

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