

CAPABILITY OVERVIEW

# Project & Programme Services (PPS)



# WHAT WE DO & WHY WE DO IT

We're AtkinsRéalis, a world-leading design, engineering and project management organisation. We connect people, data and technology to transform the world's infrastructure and energy systems.

Together, with our industry partners and clients, and our global team of consultants, designers, engineers and project managers, we can change the world.

We design and deliver major projects on the built and natural environments all around the world. We believe that digitally enabled engineering has the power to radically improve the way we are all housed, connected, powered, and protected and can change our relationship with our communities and our planet for the better.

We're committed to leading our clients across our various end markets to engineer a better future for our planet and its people.

It's our belief that it's only by connecting people, data and technology across our global organisation, partnerships and industry, that transformational change is possible.

So, we strive to be the place that the best, most innovative people want to work.

This requires us to understand the most complex projects, end-to-end. It demands we deliver ambitious designs underpinned by flawless execution. It necessitates the ability to make net zero solutions – powered by digitally enabled processes – the norm. It means that culturally, we aim to be an open, invitational, and likeable team that problem solvers are instinctively drawn to.

We are proud of our inclusive, diverse and energised approach and we share an open culture founded on our values: **safety, integrity, innovation, collaboration, and excellence.**

# PROJECT & PROGRAMME SERVICES (PPS)

We unite and organise the many partners needed to deliver major programmes.

Complex projects require hundreds if not thousands of players. From managing each line of the project schedule, to uniting and organising disparate agents, we have the reach to make sure that every entity involved has complete clarity on what they are meant to do, and when.

Our breadth of expertise means that we understand how to distribute roles across a range of trades and techniques efficiently and effectively.

Importantly, we then remain a consistent presence throughout the project duration, providing a crucially common point of reference as partners and suppliers share and cooperate on often enormous scales.







# OUR MARKETS



- Power and renewables
  - Power grids
  - Alternative energies and technology
- > [Read more](#)



- Defence
- > [Read more](#)



- Transportation
  - Rail and transit
  - Roads
  - Aviation
- > [Read more](#)



- Industrial
- Life sciences / pharmaceutical
  - General manufacturing
- > [Read more](#)



- Buildings and places
- Cities and communities
  - Commercial
  - Residential property
  - Social
- > [Read more](#)



- Nuclear
- Nuclear new build
  - Nuclear reactor support and life extension
- > [Read more](#)



# OUR SERVICES



Programme  
management  
and advisory



Health and  
safety



Project  
management



Asset  
management



Cost  
management



Sustainability



Project  
controls



Building  
surveying

## Wider services include:

- Business cases and funding advice
- Digital
- Employer's agent
- Environmental
- Facilities management strategy
- Financial modelling
- Fire strategy
- Life cycle planning and modelling
- Masterplanning
- Multidisciplinary consultancy
- Planning consultancy
- Principal designer
- Procurement advice
- Social value









## We believe that together, we can solve anything.

Our agile, collaborative teams work smartly across the UK and Ireland to deliver outstanding solutions. We focus on building close relationships with our clients across our regions and maintaining a deep understanding of local markets.

Our investment in technology makes it easy for our teams to reach out to talented colleagues across networks, disciplines and geographies. We pool expertise from across the world to deliver extraordinary things as one cohesive force.

**42 offices**

**14,000** AtkinsRéalis staff

across the **UK & Ireland**

(**2,000** staff in the PPS division)



ABERDEEN	EPSOM
ALDERSHOT	EXETER
BELFAST	GALWAY
BIRMINGHAM	GLASGOW
BRISTOL	LEEDS
CAMBRIDGE	LIVERPOOL
CARDIFF	LONDON
CHELMSFORD	MANCHESTER
CHELTENHAM	NEWCASTLE UPON TYNE
CORK	NOTTINGHAM
CREWE	OXFORD
CROYDON	PETERBOROUGH
DERBY	PLYMOUTH
DERRY	SHEFFIELD
DUBLIN	SILCHESTER
DUNDALK	SOUTHAMPTON
EGHAM	STOCKTON- ON-TEES
EDINBURGH	SWANSEA
	SWINDON
	TROWBRIDGE
	TUNBRIDGE WELLS
	WARRINGTON
	WHITEHAVEN
	YORK

At AtkinsRéalis we make **social value** a strategic priority by creating **capability**, being **accountable** and radically **collaborating**.

## SOCIAL VALUE

Social Value is at the heart of what we do we do at AtkinsRéalis. We are proudly leading the way on social value, embedding it into our overall business strategy. Our Social Value Policy sets out our social value aims and objectives and underpins our approach to delivery and measurement.

We continue to embrace, even drive, the further revolution that is happening and evolve our approach to create a lasting legacy in the communities we work and live in.

### Embedding our social value principles in our project delivery

Our project delivery is aligned with The National Social Value Taskforce's principles, and we achieve credible and consistent results with accurate reporting to understand the true impact created.

We work closely with our teams and VCSE's to maximise impact through our SV delivery themes:

- Challenging inequality
- Inspiring the next and future generations

- Supporting economic growth
- Spearheading environmental sustainability

### Helping our clients

Our advisory service supports clients and supply chains with their own social value agenda. Our SV team support in the necessary change management, process creation and delivery. From early strategy setting, through committing and delivering tailored social value, to capturing, reporting, and measuring the additional sustained benefits created.

### Supply Chain

Our supply chain engagement includes support for MSMEs, VCSEs, new start-ups and innovators as we recognise the need to drive a positive change, we must invest long-term within local communities.

We have developed a culture of focused collaboration, continuity, integrity, and sustainable procurement, enabling a proactive relationship with supply chain partners throughout the procurement lifecycle.



# SUSTAINABILITY

In a society which is changing at a rapid pace, we are not alone in fundamentally transforming the way we operate to respond to climate change, population growth and other major risks and opportunities facing society.

Our highly-skilled team of consultants deliver holistic sustainability and energy efficiency services with a client-centric approach.

With our experienced practitioners, we know how to deliver innovative, practical and resilient sustainable design solutions tailored to our client's needs. Our team consists of BREEAM Advisory professionals, CIBSE accredited consultants and IEMA chartered environmentalists.

We have put sustainability at the heart of our business strategy through our market leadership role, our operations and the services we provide. We recognise that our operations can make an important contribution to a more sustainable world.

It is our leadership responsibility to both improve our own sustainability performance through the way we run our business and to influence others. We do this through the alignment of our strategic advice, design, construction, asset life-cycle operations and services aligned with our business strategy and plans.



Life cycle costing



Net zero carbon



Funding advisory



Biodiversity



Environmental certifications



Sustainability in society



Sustainable economics



Whole life carbon



Decarbonisation retrofit (Decarbonomics™)



# Working together to protect tomorrow

Net Zero carbon by 2050 is the global deadline we cannot afford to miss.

[atkinsrealis.com/ENGINEERINGNETZERO](https://atkinsrealis.com/ENGINEERINGNETZERO)



# DIGITAL TWIN

## Connecting the virtual and physical

Our industry is facing numerous challenges as it looks to increase the predictability of project delivery and the whole life value of assets, while reducing costs and its carbon footprint. By connecting people, data and technology, we're helping to lead a digital transformation which will see digital twins playing a pivotal role in shaping a more productive future.

A digital twin is a virtual representation of a physical asset that provides the data connection between the virtual and physical asset, enabling its user to make data-driven and informed decision about an asset-related task or activity throughout its lifecycle.

More than just a 3D or a BIM model, digital twins provide context to the relationship between

the asset and its environment, providing the means to monitor, control and optimise the physical asset in a timely manner.

### **Transformative benefits**

#### **Increased productivity and collaboration**

Vital information about the built asset can be stored and analysed throughout its lifecycle and kept current, unlocking unparalleled collaboration across teams and stakeholders.

#### **Optimised asset performance and sustainability**

Operational and occupational data can be monitored and analysed in real-time, providing valuable insights on how the asset is used and currently performing.

#### **Reduced construction and operating cost**

Virtual scenarios on construction sequencing and logistics can be run and visualised, familiarising

workers with required tasks and reducing costly re-works. During operational stages, predictive analytics enables targeted maintenance, reduces downtime, optimises asset performance and reduces whole-life costs.

#### **Improved safety**

Improved design consideration, site accessibility, construction staging and maintenance access leads to better safety outcomes and reduced risk.

#### **Minimising impact on the planet and the climate**

Insights on asset performance and associated carbon usage allow unique opportunities to target initiatives to achieve net zero objectives and plans.



# MARKET TRENDS

## Workspace

With five generations in the workplace, the need to create an adoptive workscape to meet the needs of our people is even greater.

With choice-rich millennials and centennials attracted by the experiential and social part of the workplace, there is a great opportunity to use the office as an attraction and retention tool by every organisation, whilst the new environment enhances the productivity of our employees.

Benchmarks have been reset after the pandemic and new trends have started evolving.

Our workplace strategy consultants support corporates in connecting their estate strategy, culture and Employee Value Proposition

so the evolving workscape meets all the criteria to enable the business to thrive.

We use data analytics to capture the needs of our clients' employees and smart AI technology to create tailored solutions. We provide a one-stop team which can cover the whole facet of activities; from the early stages of the strategy formation, working with HR, marketing and estates teams to set the brief for the design teams and then take the project to market to procure project teams for delivering the programme of projects.

We aim to be the strategic partner of our clients who will be helping them on every step of their journey.







# A14 UPGRADE

Moving the digital journey along for the rest of the transportation industry

The A14 is a vital road that carries high levels of commuter and trade traffic. In 2015, a £1.5bn upgrade to the Cambridge to Huntingdon section of the route sought to improve its capacity and reduce congestion.

The project was making use of a wide range of technologies, from geographic information systems (GIS) to 3D modeling. At the time, the sector was only

just starting to embrace digital, and much of this data remained siloed. As a major design partner in the joint venture to deliver the A14 upgrade, our pioneering approach to digital allowed the project to finally capitalise on this data. We built a centralised asset database which contractors could both use and contribute to, generating a 'digital twin' that represented the on-the-ground reality accurately, in real time.



There is a digital revolution now underway in the construction industry. It could dramatically increase productivity and save billions of pounds.

- **£1.435bn upgrade**
- **21 miles of highway**
- **200 trial holes**
- **85,000 vehicles per day**



# HINKLEY POINT C

The UK's largest infrastructure project

As a nuclear plant, Hinkley Point C will play an important part in the UK's transition to a low-carbon energy future.

The new 3.2GW power plant will power six million homes and supply 7% of the UK's electricity.

We have supported EDF NNB GenCo with the development of the power plant from its very early stages.

Our presence played a role in its securing of the first Nuclear Site Licence to be granted by the UK's Office for Nuclear Regulation for over 20 years.



As well as accelerating the UK's transition to Net Zero, the Hinkley Point C project stands to generate many social and economic benefits, including wide-ranging and potentially life-changing employment opportunities.

- **10-year construction period**
- **3.2GW power plant**
- **6m homes powered**
- **7% of the UK's electricity generated**





# MINISTRY OF DEFENCE: ENGINEERING DELIVERY PARTNERSHIP

Maintaining technical advantage while moving towards Net Zero.

Defence Equipment & Support (DE&S) is part of the UK's Ministry of Defence (MOD). It supplies essential equipment and services to the Royal Navy, the British Army, and the Royal Air Force.

Since 2018, we've worked with DE&S to make sure it has the engineering capability

it needs to specify, acquire, and deliver that support. Our revolutionary partnership – which connects the MOD to a world-class network of suppliers and thinkers – allows the Armed Forces to maintain its technical advantage while moving towards Net Zero.



This partnership enables us to work with the MOD to apply engineering excellence to its immediate challenges.

- **170 projects live at any one time**
- **£10bn DE&S annual budget**
- **10-20% AEP efficiency target**
- **250 of our people working on EDP at any given time**
- **10 year commercial arrangement**





# UK BATTERY INDUSTRIALISATION CENTRE (UKBIC)

Based in Coventry, the publicly-funded battery manufacturing development facility welcomes manufacturers, entrepreneurs, researchers and educators, and can be accessed by any organisation with existing or new battery technology.

The Faraday Battery Challenge is the Government program designed to fast track the development and commercialisation of cost-effective, high-performance, durable, safe, low-weight and recyclable batteries.

The UK Battery Industrialisation Centre (UKBIC) is a key component, supporting battery technology scale-up in the UK.

AtkinsRéalis was appointed to provide project management, cost management, building surveying, CDM advisor and clerk of works services on this significant £130m national project.



PHOTO CREDIT: UKBIC

This technology is center stage, one will undoubtedly see rapid development in the coming years.





# MULTI-DISCIPLINARY CONSULTANT PARTNERSHIP – WEST SUSSEX COUNTY COUNCIL

West Sussex County Council (WSCC) has a substantial estate, supporting the facilities and services that local communities depend upon. The Council was keen to improve value and efficiency across the estate, procuring suppliers in a timely manner, efficiently delivering the targeted projects and using the budget appropriately each year.

In 2018 WSCC entered a five-year multi-disciplinary consultant (MDC) partnership agreement with AtkinsRéalis. The c.£512m program covers the design, construction and maintenance of a variety of capital assets, typically commissioning 80-100 projects a year. Workstreams include asset management, education, One Public Estate, PropCo, and civic and community facilities.

Three key initiatives have supported the implementation of efficient delivery: a procurement strategy which identifies optimum methodologies (tailored to different project types and values); a collaborative working handbook, and a standard set of employer's requirements. All three are eliciting positive results, defining governance processes and internal procedures for a project from start to finish.

By taking full advantage of the technical expertise and sizeable resources made available to them through this partnership, WSCC can deliver more projects and have a greater impact on the lives of the residents of West Sussex.





# EDINBURGH FUTURES INSTITUTE

Almost 150 years on from the original construction of Edinburgh's prestigious Old Royal Infirmary, construction works are underway to transform the building into the University of Edinburgh's Futures Institute (EFI).

Due to our extensive experience of complex heritage refurbishment project AtkinsRéalis was appointed to provide multidisciplinary services from inception.

The Grade A listed Old Royal Infirmary building lay dormant and uninhabited for over a decade accelerating decay and deterioration. The

building was in extremely poor condition, with significant asbestos, multiple layers of finishes, concealed rooms, structural instability and rot.

Our strategy to derisk the development involved four enabling works packages to strip the building back to its original fabric. This structure minimised client exposure to significant prelims and potential overruns due to unknowns.

The building has flexibility built into the design from the outset to meets users evolving needs, for a building that is still fit for purpose in a post-COVID era.

The higher education sector is used to harnessing the past to create opportunities for the future.







# PHASE 2 EXCHANGE SQUARE, BIRMINGHAM

AtkinsRéalis is supporting Grainger plc with due diligence on a project that creates a 34-storey block of 375 quality BTR apartments in Birmingham.

The development forms part of Exchange Square Phase 2, a city centre scheme situated between Birmingham's traditional business and retail districts and Eastside, an area which is undergoing significant regeneration.

Together with half an acre of new public realm known as Exchange Square, the apartments comprise the first stage of works on the last phase of the £350m Masshouse development.

A second stage will deliver food and beverage outlets and retail space. The area has strong economic growth prospects and will be further boosted by the opening of Curzon Street station on the HS2 line.



# CONTACT US

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