

**Global innovation
in the centre
of Newcastle**

**A landmark 24-acre
quarter built to transform
quality of life with new
products and services**



Living



The Helix is Newcastle's flagship development and the only city-centre quarter of its kind in the UK. Hundreds of innovators, businesses and progressive homeowners living and working side by side, along with great food, drink and entertainment venues and three beautiful new public spaces.

But it's so much more than a collection of cutting-edge buildings. It's a 24-acre testbed and collaborative ecosystem for public and private bodies. We have carefully brought together world-class researchers, buzzing startups and international brands and actively help them collaborate to bring brilliant innovations to the marketplace.

Newcastle Helix is a hub for businesses and academics at the leading edge of data science, urban science and life science. Together, we're transforming the quality of life for families, communities and cities around the world.

And that's what living better is all about.

better



One of Europe's most exciting innovation districts

Newcastle Helix comprises 10 world-class buildings covering 500,000 sq ft, united by our vision for better living. It's a unique ecosystem, purpose-built to enable the commercialisation of your company's new ideas. By providing access to on-site corporates, SMEs, research hubs, National Innovation Centres and Newcastle University, the Helix helps accelerate your products and services to market.

It's the only city-centre ecosystem of its kind in the UK, with a catchment of complementary specialisms to support the full breadth of data, life, and urban sciences. Two buildings are already open: The Core** is home to a range of SMEs tackling challenges for the future of cities and the multi-award winning Urban Sciences Building has shown new ways for researchers, businesses and technology to come together.

And with a committed long-term investment from our three partners, Newcastle City Council, Newcastle University and Legal & General, you can trust the vision will be delivered in full.



Explore

Newcastle Helix



The Biosphere

A home for ambitious companies within life science and innovation, research and development. A 90,000 sq ft purpose-built facility with both commercial laboratory and office space.

The Lumen

A flagship office building of exceptional quality, providing accommodation over seven floors to cater for the flexible demands of modern business.

The Urban Sciences Building

A living laboratory and an exemplar of world-class research and education in computing, digital technology and engineering.

The Frederick Douglass Centre

Shaping the future for learning, weaving together social spaces and lecture theatres.

The Spark

Landmark office space for established and new businesses. Includes exclusive occupancy accommodation and large collaboration space.

The Core

For knowledge-based, research-led businesses addressing the most pressing challenges for the future of cities.

The Garage

A car park and transport hub, centrally located and with electric vehicle charging points.

The Catalyst

Grade A accommodation in a collaborative co-location facility that is home to two National Innovation Centres.

The National Innovation Centre for Ageing

Bringing together world-leading businesses, the public, scientists and innovation experts to improve quality of life as we age.

The National Innovation Centre for Data

Create category-redefining products using digital data, whether through a long-term project or the centre upskilling a team in your organisation to do more in-house.

The District Energy Centre

A centralised energy system that will explore emerging energy technologies.

The Key

Dedicated to world-leading structural and materials engineering research into lowering energy consumption and making buildings cheaper to run.

The Hotel

A landmark hotel location bordering St James' Boulevard which will provide high-quality accommodation for those visiting the city as well as complementing the diverse mix of uses at Newcastle Helix.

How we can help you innovate

We want to talk to interesting companies, large and small, from every sector to see how our ecosystem can help you.

And no matter what your business, we can offer a great employee lifestyle, including planned cafés, restaurants, and a hotel – and with the city centre just eight minutes away on foot. We have on-site conferencing facilities for you to hold events and talks right here, saving you time and effort. We also provide incubator schemes, co-working spaces, and networking events for collaboration across all our site specialisms.

Digital Creative

National Innovation Centre for Data. Working on collaborative projects to get the skills your organisation needs to obtain insight from data.

Developer culture. Newcastle's tech sector numbers over 2,800 businesses, employing over 27,000 people.

Social networks. Such as Digital Union, Dynamo North East and Creative Fuse.

Data Science

National Innovation Centre for Data. Improve your competitiveness and grow your business by unlocking the huge potential for innovation offered by the explosive growth in digital data.

EPSRC Centre for Doctoral Training in Cloud Computing for Big Data. Improve decision making and productivity.

Open Lab. Explore civic tech, and diversity and equality in the digital economy.

Siemens MindSphere Lab. Design, develop and test Internet of Things products, including for manufacturing and building management.

Work side by side with industry leaders. An on-site culture encouraging collaboration and investment opportunities.

Life Science

National Innovation Centre for Ageing. Accelerate products to market to help the ageing population. Including access to latent product testing community.

VOICE Global is an organisation based at the National Innovation Centre for Ageing, looking to understand what citizen priorities are and to co-develop products and services with businesses that meet them.

SME access. Collaboration and investment opportunities with high growth companies.

Centre for Life. Collaborate with world-class medical science researchers and allied services.

Urban Science

National Centre for Energy Systems Integration. Access to energy research expertise and a network of partners including Ofgem, BEIS and National Grid.

Grid-connected energy storage test bed. Experiment at scale, on site.

Rapid charge EV filling station. Next generation tech to charge vehicles in just a few minutes.

Siemens MindSphere Lab. Design and develop Internet of Things products and applications in cloud and cyber-physical environments.

The Urban Observatory. 18,000 data streams and almost a billion data points revealing the complex systems behind cities.

With 230,000 sq ft of space available, we can help your business find its perfect home



Ideal for larger businesses

The Lumen

A brand new flagship office space, designed to cater to the flexible demands of modern businesses, whether it be an international brand or a start-up pioneer. The Lumen will be home to the new North of Tyne Mayor and Combined Authority.

At a glance

- 106,000 sq ft of Grade A offices
- 5,000 sq ft incubator-accelerator space
- Flexible floor plates



Built for life sciences

The Biosphere

A specialist facility offering high-quality biology and chemistry laboratories, Grade A offices and conference space. Leading the way as a home for ambitious companies within life sciences, research and innovation.*

At a glance

- A floor of Grade A offices
- 90,000 sq ft of fitted laboratories and write-up space
- A bespoke programme of business support, including expert advice and industry knowledge
- Conference space for up to 80 people



A collaborative working environment

The Catalyst

Home to the National Innovation Centres for Data and Ageing, The Catalyst provides commercial facilities alongside flexible, collaborative spaces with active, in-house support for networking, exhibitions, events and prototype demonstrations.

At a glance

- 100,000 sq ft of flexible Grade A office space
- A 20 seat boardroom with panoramic views across the Newcastle skyline
- 180 seat theatre and over 380 sq m of exhibition and workshop space
- Access to collaborative spaces and meeting rooms
- Large-scale prototyping and demonstration facilities



An inspiring working environment

The Spark

A cutting-edge workspace designed to provide a connected, flexible and sustainable environment; combining the latest technologies to accommodate both headquarters and growing entrepreneurial businesses alike.

At a glance

- 106,000 sq ft of Grade A offices arranged over 12 floors
- Top floor terrace with iconic views over Newcastle
- Large open floor plates

Case study:

The Northern Retrieval Registry

Dr David Langton
Founder

“One of the reasons why I chose The Biosphere was the opportunity to meet like-minded individuals.”

90,000 sq ft state-of-the-art facilities dedicated to life sciences.

How does The Biosphere serve your business?

The Northern Retrieval Registry is a research centre business that studies implants removed from the body. Through reverse engineering, we work out why they malfunctioned or performed well. It's quite a unique area because it falls in between bioengineering, pathology and the surgical specialties. The Biosphere was perfect for us because it could serve all these disciplines. I'd been looking around for the right space for years and The Biosphere really met all our criteria. It was centrally located, it was modern, it was new and surrounded by like-minded individuals and companies.

What collaboration opportunities does this site provide?

One of the reasons why I chose The Biosphere was the opportunity to meet like-minded individuals. We do a lot of data management and there's a data management centre right next door, as well as the National Innovation Centre for Ageing. These facilities are really central to what we do in terms of cellular responses and genetics.

Chance meetings at conferences have been behind many of the biggest developments I've made. Being in an environment like this, we're going to be exposed to different learning opportunities, different people and different specialties and areas, which will help us in our work and development.



The Biosphere at Newcastle Helix

What global opportunities will be enabled by working at The Biosphere?

I'll give you an example. Last year, we organised a world-class conference in the joint replacement research area. I remember at the time thinking how good it would have been to be able to show people from outside the UK around a world-class facility like The Biosphere, which not only looks impressive but also has excellent technologies and experts. Now we can.

We're also looking to collaborate with Australia and do an increasing amount of work in the United States. But to expand our database, we need bigger equipment, bigger facilities, we need attractive facilities and attractive technology. That's exactly what The Biosphere provides.

What excites you about the bigger vision of Newcastle Helix?

What excites me about working on the Helix site is the ability to work with other individuals who are all working towards the same goal, i.e. to improve science and technology for the future. The Helix is so new and exciting and it's right in the city centre. It's a pretty mind-blowing place and I'm really looking forward to moving there.

Case study:

Procter & Gamble

Rhona Knox
Global R&D Leader

“For me, it’s about designing a space that brings together academic expertise, big industry, SMEs and, most importantly, the community.”



The Catalyst is our new groundbreaking facility that is home to both the National Innovation Centre for Ageing and the National Innovation Centre for Data

What is your current relationship with the science and data facilities in Newcastle?

Procter & Gamble has successfully collaborated with Newcastle University for many years to develop ingredients that go into our products. We’re particularly focussing on the National Innovation Centre for Data and the National Innovation Centre for Ageing and are excited to see how the additional capability at Newcastle University will create new opportunities.

What stands out about Newcastle Helix to you?

For me, it’s about designing a space that brings together academic expertise, big industry, SMEs and, most importantly, the community. The VOICE Global panel, in particular, is a unique capability that will prove invaluable. Normally, our product researchers need to winkle out what people really want from what they say they want. The VOICE Global panel can tell you this and even offer solutions. So that’s very exciting, and a huge resource for us to tap into as a region. The Helix additionally combines this with the wealth of cutting-edge science coming from the University and the wealth of tech innovation from SMEs in the North East.

Five years from now, what would Procter & Gamble like to see happen here?

What I would love to see is that we actually invent products and services that serve the 55+ demographic. I want us to have invented things here that are helping the lives of consumers in the UK and the rest of the world, creating economic growth for the North East of England at the same time.

Tell us a bit about the international opportunity created by Newcastle Helix.

In China and Singapore everyone expects to see massive investment in science. That includes amazing buildings being put up. Someone heard about what we’re doing, saw the building and said: “My goodness, this is like Singapore but it’s in the North East of England!” How fantastic is that!

Tell us about how you will benefit from the future homes on Newcastle Helix.

Procter & Gamble’s whole mission and purpose as a company is to make the everyday life of people a little bit better. So naturally, we’re very interested in future homes because it would give us the ability to gain genuine insight into the way people really live. For us, it’s a phenomenal research tool which could, for example, enable us to design a house that would adapt and change as you get older and prove an incredibly nice place to live as your mobility changes. With the Helix, the ability to really focus on healthy ageing, and use that data, is a great tool that fits with Procter & Gamble’s mission.

Newcastle Helix: The data story

Data science is one of the cornerstones of Newcastle Helix. Across the development are facilities to support businesses looking to capture and mine data or collaborate with our specialists to gain insight through the data they have.

At Newcastle Helix, in collaboration with Newcastle University, we have years of experience in world-leading research and have raised almost £100m funding in data research. Our vision now is to use data to help improve the lives of citizens, boost the region's economy and create opportunities for businesses to collaborate around smart cities.



Data gathering stations can be found across Newcastle Helix and the city.

On site, we have numerous assets that help businesses across all sectors with their data journey. Situated in The Catalyst building, the National Innovation Centre for Data exists to excite everyone from schoolchildren to business leaders about the potential innovations that can be achieved through data. One key objective is to map out the data ecosystem to help businesses interpret their data and to develop the skills that will help them gain insight from that data.

In addition, housed in Newcastle University's beautifully designed Urban Sciences Building, the Urban Observatory collects the largest set of publicly available real-time urban data in the UK. Our sensors are continuously gathering over 50 types of live data across the city. And our commitment to open-data and platforms makes it easy for you to use. We also provide analytical and bespoke monitoring services to businesses and work with a range of private and public partners on research and development projects.

Businesses also get access to experts who can help them with areas like scalable computing, machine learning and artificial intelligence: all of the things that businesses need in order to get value from their data.

Beyond urban science, the Helix also focuses on ageing, energy, biosciences and how these areas intersect with data. This breadth opens up the opportunity to unite the health service, social care and business, allowing everyone involved to make informed decisions and utilise the Council's resources to generate new business and improve people's lives.

The Urban Sciences Building. Home to the Open Lab, Siemens MindSphere Lab and the EPSRC Centre for Doctoral Training in Cloud Computing for Big Data.



Explore Newcastle Helix

Case study:

LKQ Europe Ltd

“We’ve taken the business on an important journey. It’s not just about the revenue. The excitement is in taking the whole management team on that journey by showing them the prototypes, and explaining what we can achieve if we’re open to it.”

Marcin Lisowski
Head of Data Analysis
LKQ Europe Ltd

How one small project convinced a large corporation of the power of better data analytics

In 2017, LKQ, a Fortune 500 corporation, embarked on a project with the National Innovation Centre for Data to help it discover valuable insights into the company's data. In addition to providing a substantial return on investment, one of the biggest impacts from the project has been on how the company values the opportunities provided by big data. As a direct consequence of the project, LKQ is now establishing a unit for advanced data analytics in collaboration with a major industrial partner. Management are excited about the potential that it has to transform the business.

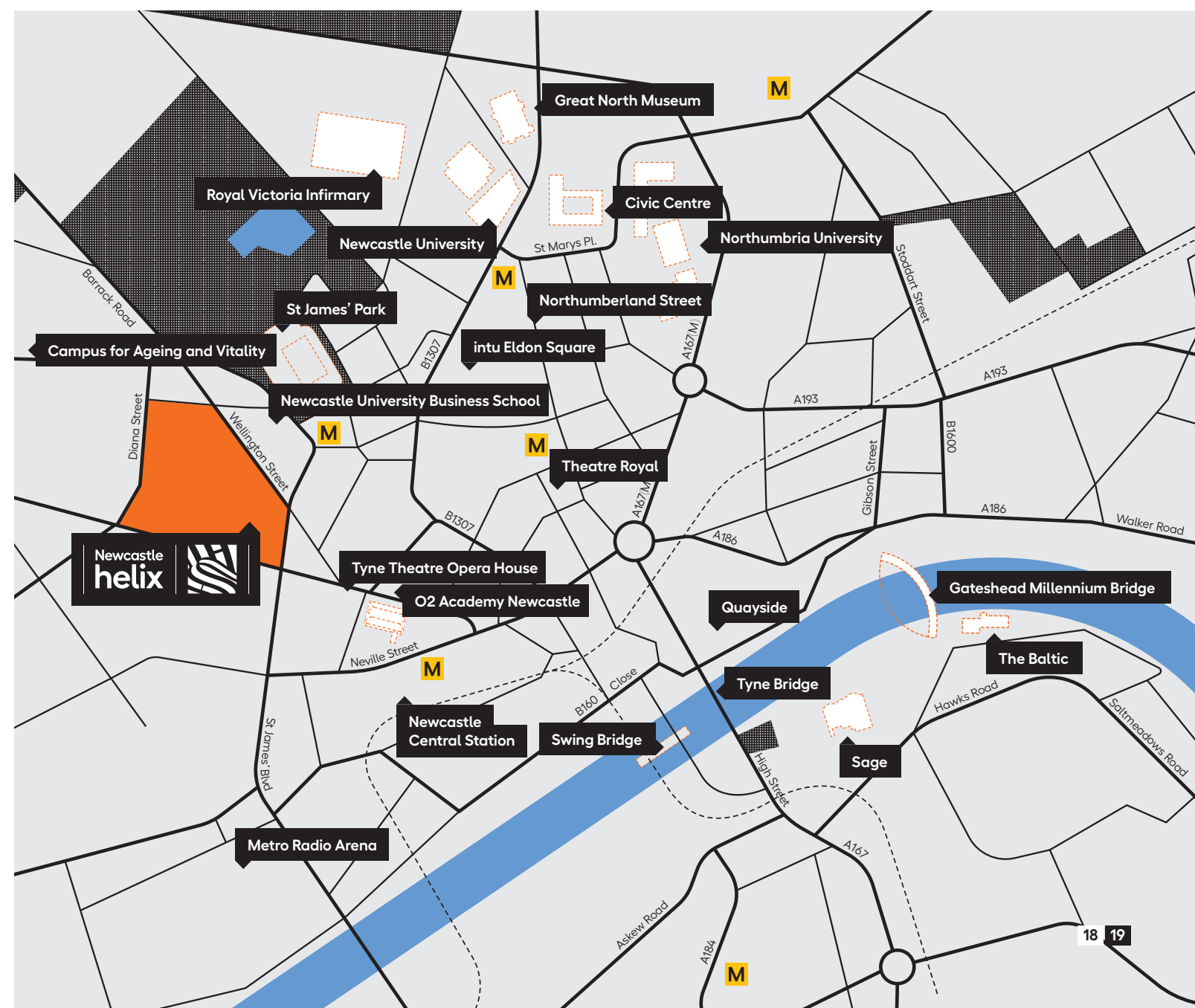
The best place to work in the UK

A recent national study found that Newcastle is one of the most desirable places to do business in the UK.[†]

The Helix is the latest chapter in Newcastle's inspiring story of innovation.

Today, the North East has a higher density of life science companies than London and hosts numerous research and innovation platforms supporting the whole bench-to-bedside pathway. Newcastle is also the heart of one of the fastest growing tech hubs outside of London, thanks to incredible researchers and innovative companies.

It is a fantastic place to do business. Newcastle International Airport has more than 80 routes and more than 30 trains go directly to London every day. Newcastle University Business School partners with companies in a variety of ways, supporting leadership development and talent recruitment. Recently voted the #1 in the UK as the Best Place to Work, people living and working in Newcastle enjoy some of the shortest commute times. In February 2016, the European Commission voted Newcastle the happiest place in the UK and 10th in Europe. House prices are lower than the national average, real wages go much further, and our healthcare and schooling is some of the best available. With the best of city, coast and countryside, Newcastle offers an excellent quality of life.



[†]Startups.co.uk (2018)

“Newcastle Helix is a unique partnership between Newcastle City Council, Newcastle University and Legal & General. Our vision is to create a new destination that will attract talent globally, harness the intellectual horsepower from the University, and tap into the drive from the Council to create economic growth in the city and lasting change.”

Ben Rodgers
Head of Regeneration
Legal & General Real Assets

Three partners,
one vision: Living Better



Contact
+44 (0) 191 277 7849
info@newcastlehelix.com

Address
Newcastle Science Central
Management LLP
c/o The Core
Newcastle Helix
Newcastle upon Tyne
NE4 5TF



*The Biosphere has received circa £4.5m from the England European Regional Development Fund as part of the European Structural and Investment Funds Growth Programme 2014–2020. The Biosphere received £6.98m by the North East Local Growth Fund from HM Government administered by the North East Local Enterprise Partnership. **The Core is part financed by the European Regional Development Fund Programme 2007 to 2013.

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