



UKRI and ISCF landscape

How Innovate UK helps UK businesses innovate today

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Innovate UK

Innovate UK is part of
UK Research and Innovation

UK Research and Innovation: vision, mission and values

A research and innovation system that is fit for the future and able to respond to environmental, social and economic change on a global scale, tackling several challenges and opportunities:

- developing new ideas and technologies to address the complex challenges facing all societies around the world
- helping the UK to make the most of its world-class research and supporting its businesses to stay at the cutting edge
- engaging the public in discussion about research and innovation

Benefiting everyone through knowledge, talent and ideas

UK Research and Innovation brings together the 7 Research Councils, Innovate UK and Research England.

As part of UK Research and Innovation, Innovate UK drives productivity and economic growth by supporting businesses to develop and realise the potential of new ideas including those from the UK's world-class research base.

UK Research
and Innovation



Innovate UK

Innovate UK drives productivity and economic growth by supporting businesses to develop new ideas.

We connect businesses to the people that can help them, and fund businesses and research collaborations in all economic sectors, value chains and UK regions to accelerate innovation.

Innovate UK

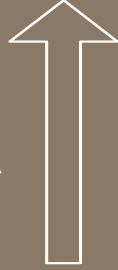


Investment of
£2.2bn

Since 2007



Industry match
funding taking
the total value of
projects above



£3.75bn

Up to

£16bn



in added value
to the economy

Up to

£7.30

For every
£1 we've
invested



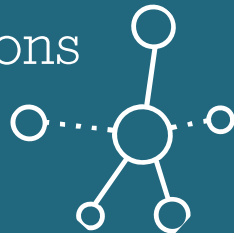
We've funded around

11,000
projects



8,000

Unique
organisations
involved



8 jobs

For each
organisation
involved

70,000

Jobs created in total



Global investment in R&D comparisons

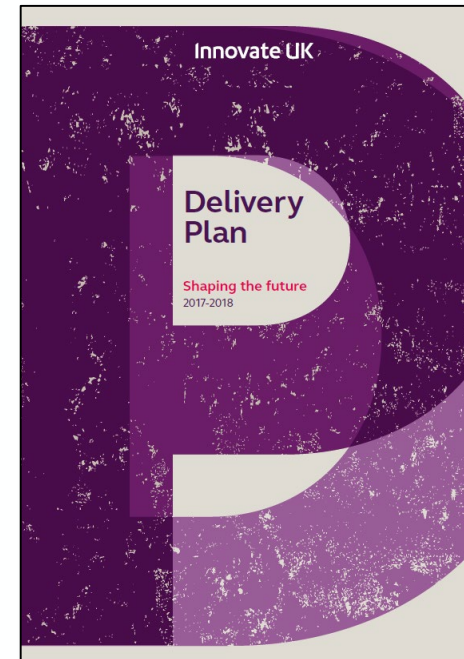
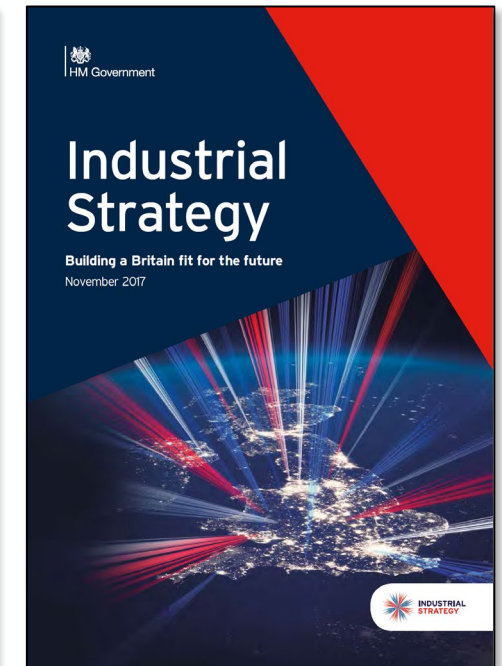
Innovate UK



How we do it

Delivery of solutions that are:

- Innovation-oriented
- Adoption-friendly
- Build on UK USPs
- Attractive for clinical trials
- Supporting national strategy
- Aligned to Research Council aims



Innovate UK Networks: Find markets, solutions and funding

Innovate UK
Knowledge Transfer Network

Knowledge Transfer Network

Enterprise Europe Network



KTN supported clean-tech company FeTu

Connecting people to accelerate innovation

Find out more



Featured:

About KTN

Knowledge Transfer Network is Innovate UK's network partner and also provides innovation networking for other funders in line with its mission to drive UK growth. To

Connecting people to accelerate innovation

Find out more



Featured:

About KTN

Knowledge Transfer Network is Innovate UK's network partner and also provides innovation networking for other funders in line with its mission to drive UK growth.

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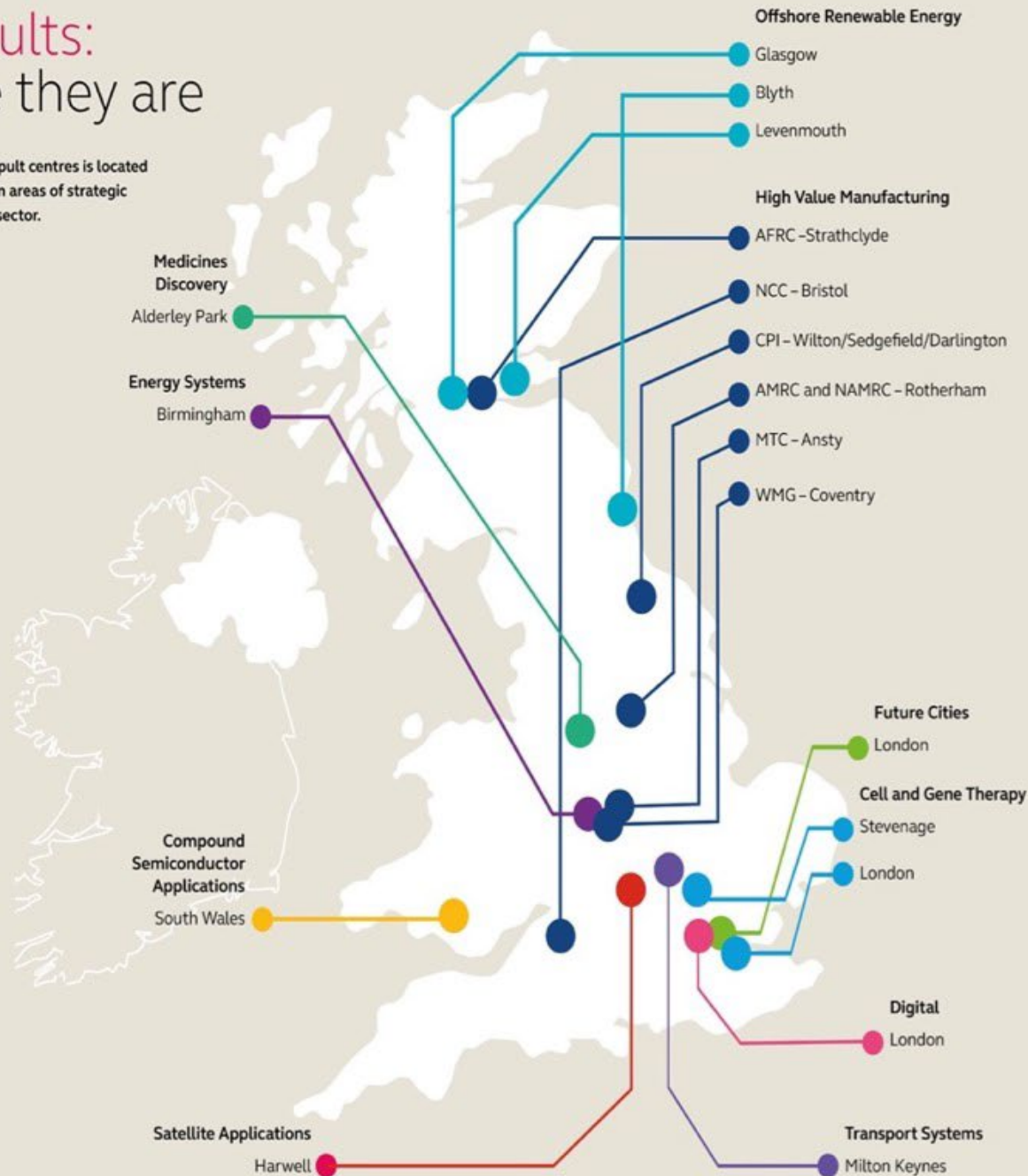
Job vacancies

Priority areas

- Precision medicine
- Medical technology
- Digital health
- Advanced therapies - cell, gene and others
- Preclinical technologies
- Pathogens
- Biosciences

Catapults: where they are

Our network of Catapult centres is located throughout the UK in areas of strategic importance to each sector.



“To innovate, we need open centres where academia and business can get together and drive forward great ideas into manufactured products. And that’s what the Catapults are delivering for us.”

Juergen Maier, Chief Executive,
Siemens UK

Regional Centres

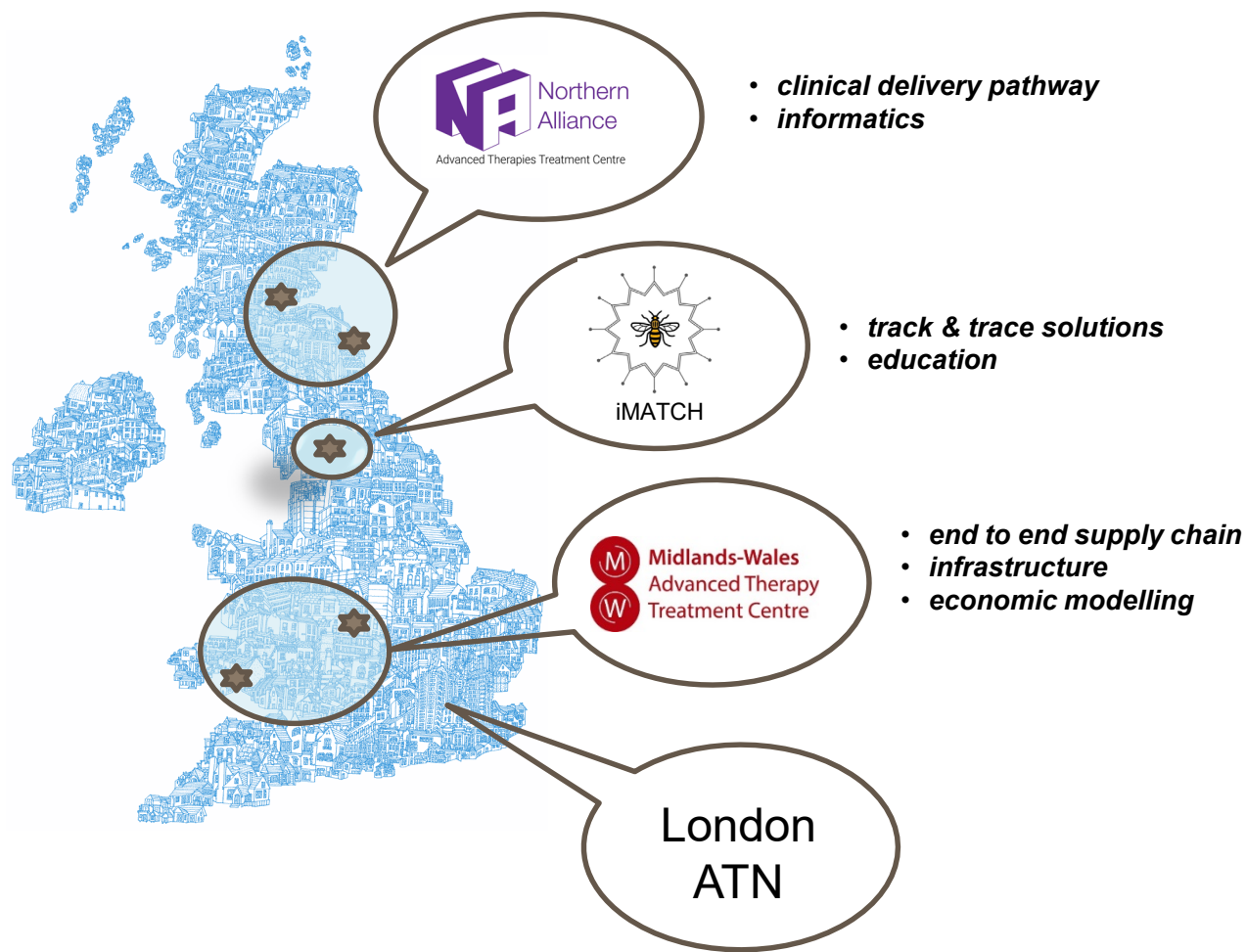
Digital

North East and Tees Valley
Yorkshire
Brighton
Northern Ireland

Satellite Applications

North East East Midlands
Scotland South Coast
South West

Advanced Therapy Treatment Centres



Advanced Therapy Treatment Centres

AIMS

- Increase patient access to advanced therapies
- Establish best practice for safe and effective delivery - capable of replication
- Make the UK the exemplar for adoption of these therapies

Key Criteria:

- Significant NHS involvement
- Involve both product developers and supply chain companies
- Lay the foundations for tracking and tracing systems – patient and product

Introduction to Innovate UK funding

- Sector competitions
- Industrial Strategy Challenge Fund
- Knowledge Transfer Partnerships
- Eurostars
- BioMedical Catalyst
- Open/SMART competitions
- Innovation Loans
- Materials & Manufacturing and other themed competitions

£67m

CR&D grants
awarded

+£32m

Additional
funding from
industry

>140

Advanced
therapies projects
funded

Industrial Strategy Challenge Fund

- Delivers the science that business needs to **transform existing industries and create new ones**
- **Accelerates commercial exploitation** of the most exciting technologies the UK has to offer the world
- Ensures that scientific investment truly delivers **economic impact, jobs and growth right across the country**
- **Industry-led** and powered by **multi-disciplinary** research and **business-academic collaboration**



5 foundations of The Industrial Strategy



Ideas

The world's most innovative economy



People

Good jobs and greater earning power for all



Infrastructure

A major upgrade to UK's infrastructure



Business Environment

The best place to start and grow a business



Places

Prosperous communities across the UK

UK Research
and Innovation

Industrial Strategy Challenge Fund



Ageing Society

Leading-edge healthcare
(inc. medicines manufacturing)

Data to early diagnosis
and precision medicine

Healthy ageing

Accelerating detection of disease



AI and Data Economy

National Satellite Test Facility

Audience of the future

Quantum technologies

Next generation services

Made smarter



Future of mobility

Self-driving vehicles

Manufacturing and materials
of the future

Faraday battery challenge

Robots for a safer world

Driving the electric revolution

Future flight



Clean growth

Energy revolution

Transforming construction

Transforming food production

Industrial decarbonisation

Smart sustainable plastic packaging

Transforming Foundation Industries

Wave 2 Challenges (up to £729.5m)



Audience of the future
(up to £33m)



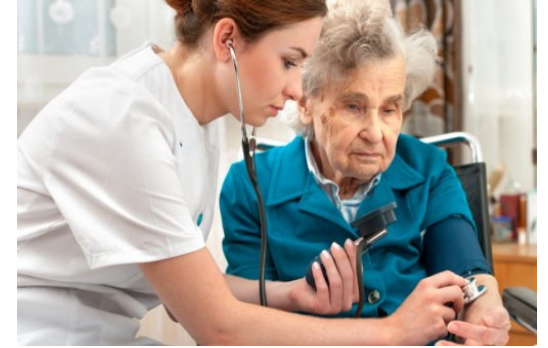
Early diagnosis & precision
med (up to £196m)



Energy revolution
(up to £102.5m)



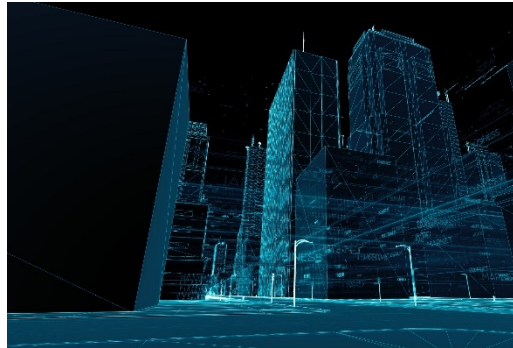
Healthy ageing
(up to £98m)



Next generation
services (up to £20m)



Quantum technology
(up to £20m)



Transforming construction
(up to £170m)



Transforming food
production (up to £90m)



ICSF Medicines Manufacturing Challenge

£191m in Wave 1 to develop first-of-a-kind technologies for the manufacture of medicines to accelerate patient access to new drugs and treatments

Vaccines Development & Manufacturing Centre

£66m

Medicines Manufacturing Innovation Centre

£13m

Cell & Gene Therapy Manufacturing Centre

£12m

Advanced Therapies Treatment Centres

£30m

Medicines Manufacturing Collaborative R&D

£25m

Digital Health Technology Catalyst

£35m

Viral vector production for cell and gene therapies

£5.6m

Digitalisation of medicines manufacturing

£4.3m

Knowledge Transfer Partnerships (KTP)

Innovate UK

- KTPs help UK businesses innovate and grow by linking them with an academic or research organisation and a graduate
- a KTP enables a business to bring in new skills and academic thinking
- the academic or research organisation partner will help to recruit a suitable graduate
- schemes last between 12 and 36 months

<https://ktn-uk.co.uk/events/webinar-knowledge-transfer-partnerships-for-the-medicines-manufacturing-sector-information-webinar>

KTP partners Professor Udo Kruschwitz, Dr Miguel Martinez-Alvarez and David Benigson



Investment accelerator

Innovate UK

The Industrial Strategy identified our investment accelerator model as a new approach to financing innovation, highlighting its potential to scale up businesses

Eureka Eurostars 2: round 12

- Aimed at small companies.
- Funded via H2020.
- **Current round 25th July to 12th September 2019.**
- Turn an idea into a product and commercialize it.
- Combine and share expertise and benefit from working beyond national borders.
- Grow faster.
- Project leader must be an R&D-performing SME from a Eurostars country.
- Open to all projects in all technology areas and market fields, but projects must have a civilian purpose.
- The consortium must include at least two partners independent from each other and established in at least two different Eurostars countries.
- Organisations from any other country may participate (as a third country), but only if two Eurostars countries are already in the project.
- Subcontractors are not considered as project partners.
- The project must be completed in 36 months or less.
- Eurostars project market introduction of the project results should be within 24 months of the completion of the project.

Innovate UK Smart Grants

Projects that support ambitious or disruptive R&D innovations with significant potential for impact on the UK economy

£25m available, **Current round opened 25th July and closes noon 16th October 2019**

6 and 18 months

- total project costs between £25k and £500k
- single company or collaboration

19 and 36 months

- total project costs between £25k and £2m
- collaboration only

Enabling integrated diagnostics for early detection

- This competition aims to accelerate development of innovative diagnostic tools and technologies by multi-disciplinary and cross-sector consortia.
- The maximum grant your consortium can apply for is £3.5 million. The total eligible project costs for each consortium, including industry contributions and any other co-funding, must not exceed £10 million.
- **Opened 23rd July and closes noon 25th September 2019**
- Projects must start by 1 January 2020 and can last for up to 36 months.

Mechanising and improving advanced therapy manufacture

- The aim of this competition is to encourage inventors of advanced therapies to introduce affordable technology during early innovation stages. This technology will enable them to reproduce the manufacture of their product at a commercial scale.
- UK businesses can apply for a share of up to £3.7 million for research and development projects to improve manufacturing of advanced therapies. This funding is from the Industrial Strategy Challenge Fund.
- **Competition opened 27th August and closes 25th September 2019 12:00pm**
- Your application must be collaborative. Your project's total eligible costs must be between £1 million and £2 million.

Innovation loans

Innovate UK

A pilot programme of competitions to the end of 2019 aiming to ensure that businesses can access funding at all stages of innovation.

Up to **£10 million**
available

Competitions
for UK SMEs wanting
to scale up

Can be used for late-
stage
R&D projects

Delivered by
Innovate UK
Loans Ltd.



A pre-competitive consortium to accelerate innovative drug discovery in psychiatry disease

Challenge

Lack of novel, validated drug targets

Opportunity

Increased understanding of biology combined with emerging genetic data

Aim

Identify & validate novel therapeutic targets for psychiatry disease



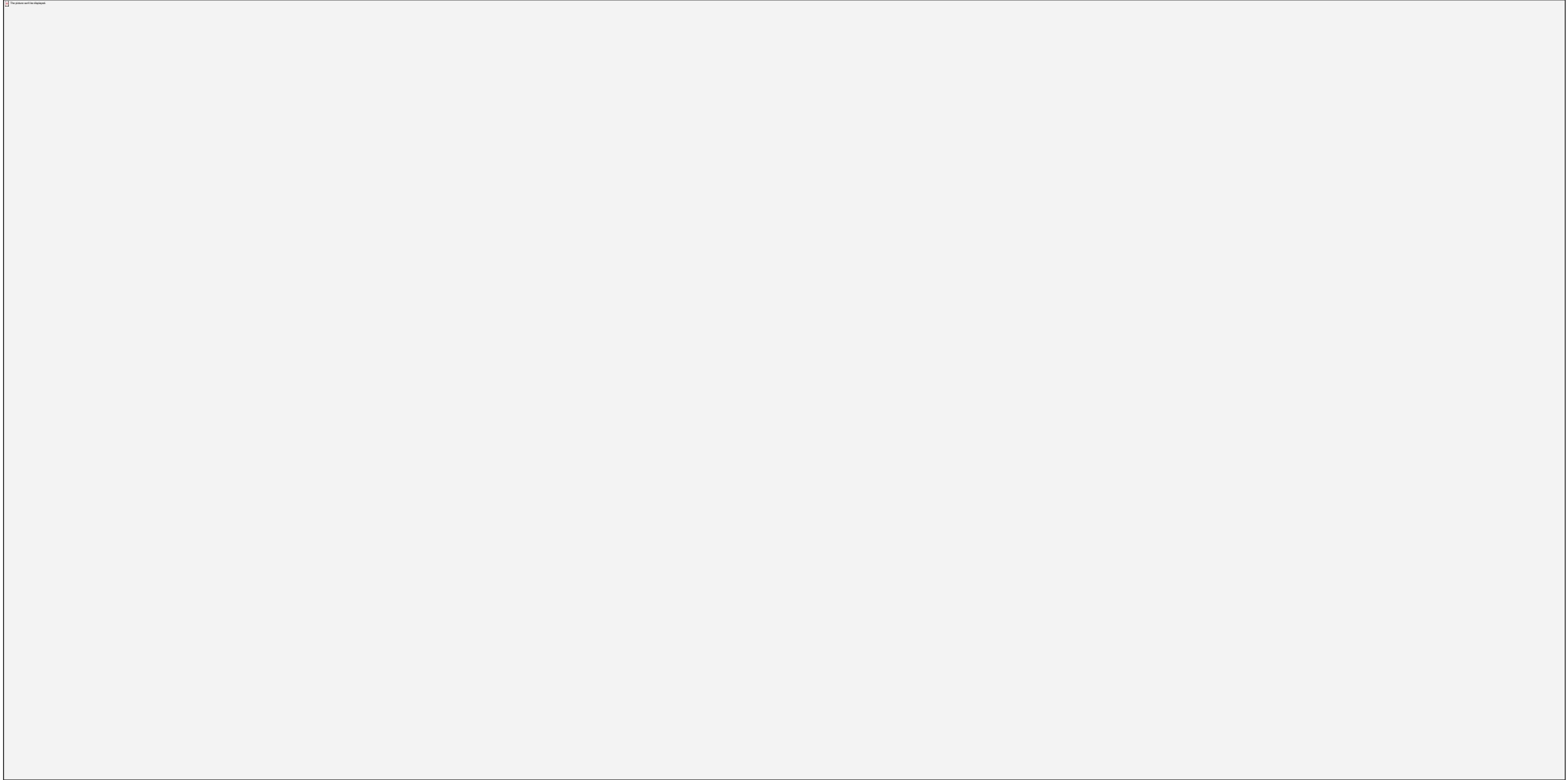
Scope

- ❖ £3m funding over 3 years
- ❖ Broad disease scope (e.g. psychotic disorders, depression, anxiety, etc.)
- ❖ Early drug discovery with a focus of new biological targets & disease biomarkers
- ❖ Up to 10 projects funded in 3 years

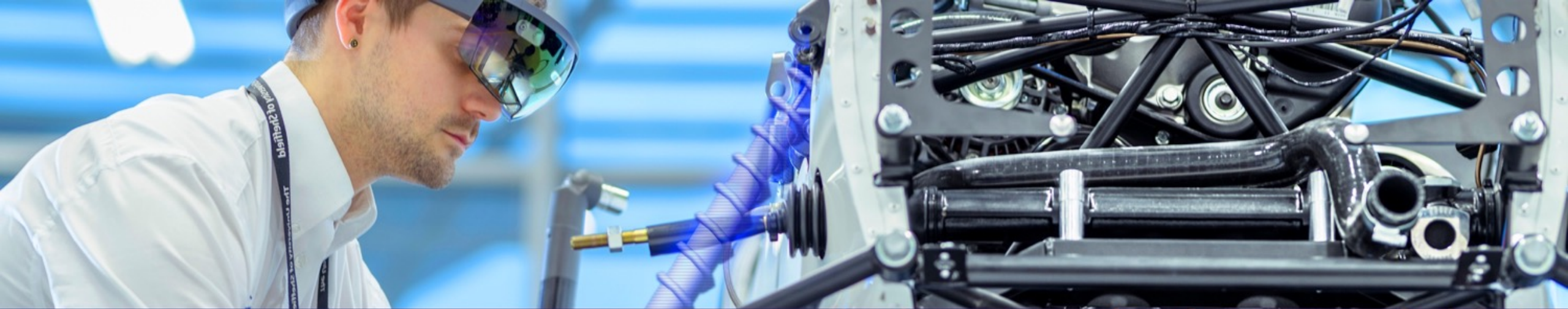
Eligibility

- ❖ Academic institutions worldwide
- ❖ Preclinical projects focused on the validation of novel targets & their relevance to disease

Women in Innovation: Building Success in the North West event on the 24th of September 2019, Manchester



https://ktn-uk.co.uk/news/registration-is-now-open-for-the-women-in-innovation-building-success-in-the-north-west-event?utm_campaign=1561266_Women%20in%20Innovation%20Newsletter%20August&utm_medium=email&utm_source=dotmailer&dm_i=2VFU,XGOI,6SEYGQ,3I1L4,1



Thank you

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