



# 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:

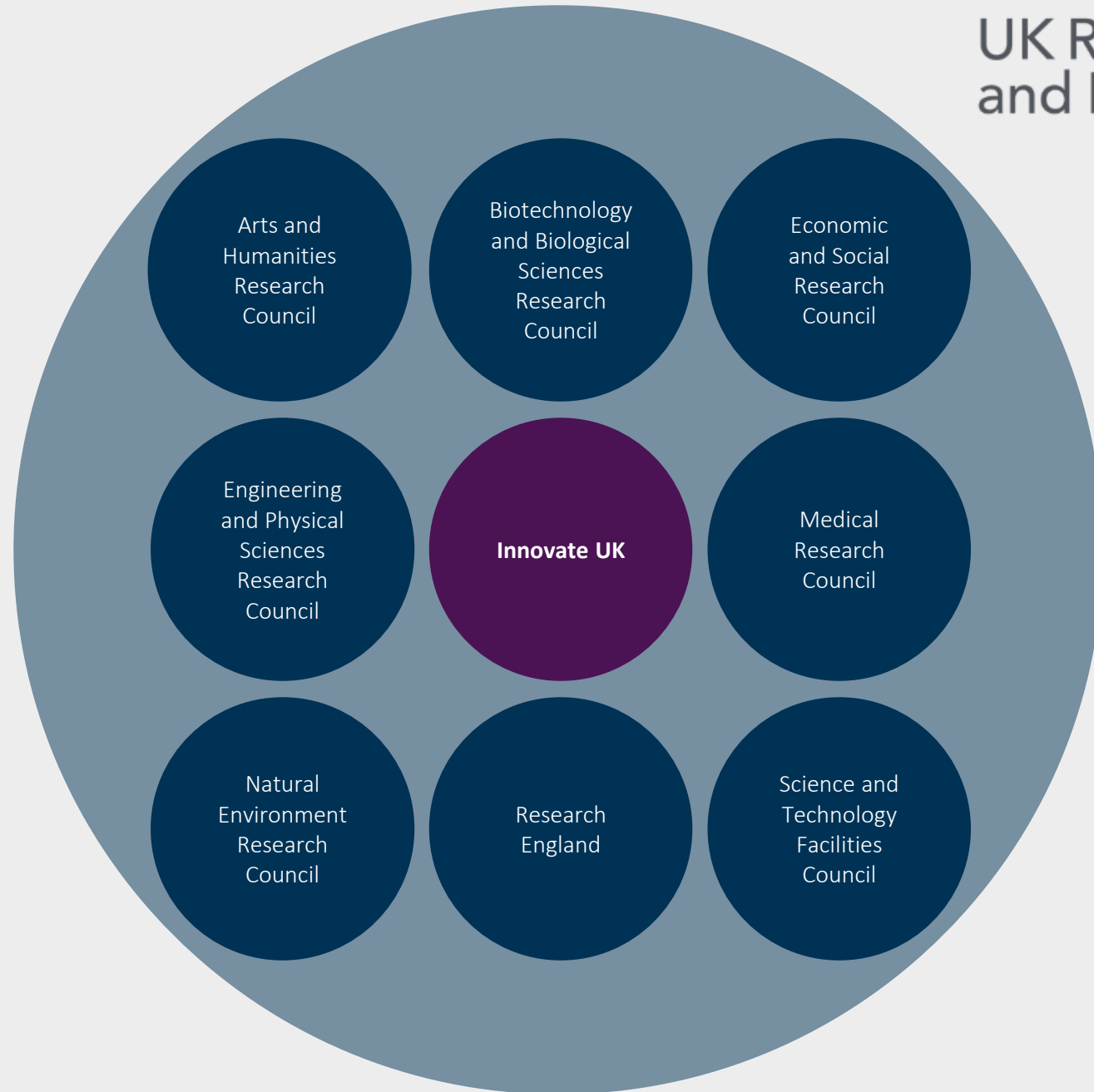
- developing new ideas and technologies to address the complex challenges facing all societies around the world
- helping the UK to make the most of its world-class research and supporting its businesses to stay at the cutting edge
- engaging the public in discussion about research and innovation

# 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.

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Investment of  
**£2.2bn**

Since 2007



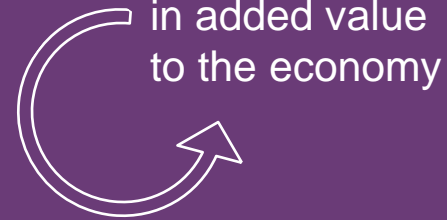
Industry match funding  
taking  
the total value of  
projects above



**£3.75bn**

Up to

**£16bn**



in added value  
to the economy

Up to

**£7.30**

For every  
**£1** we've  
invested



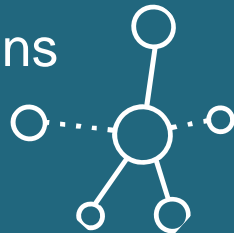
We've funded around

**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

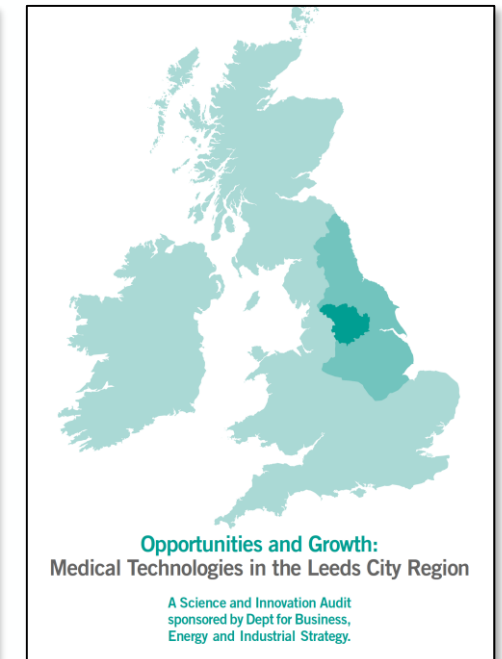
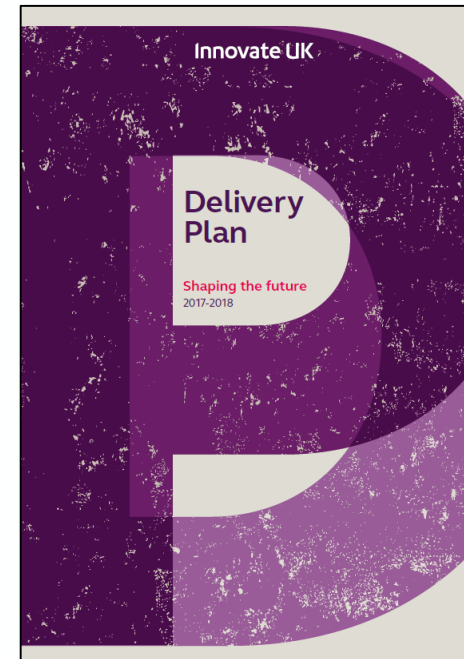
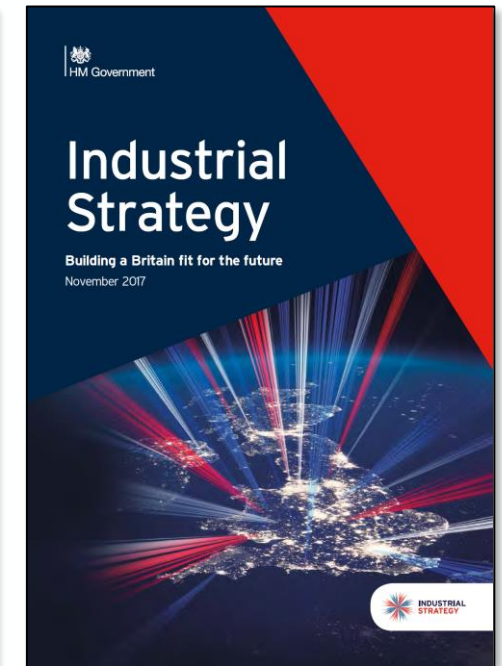




## How we do it

### 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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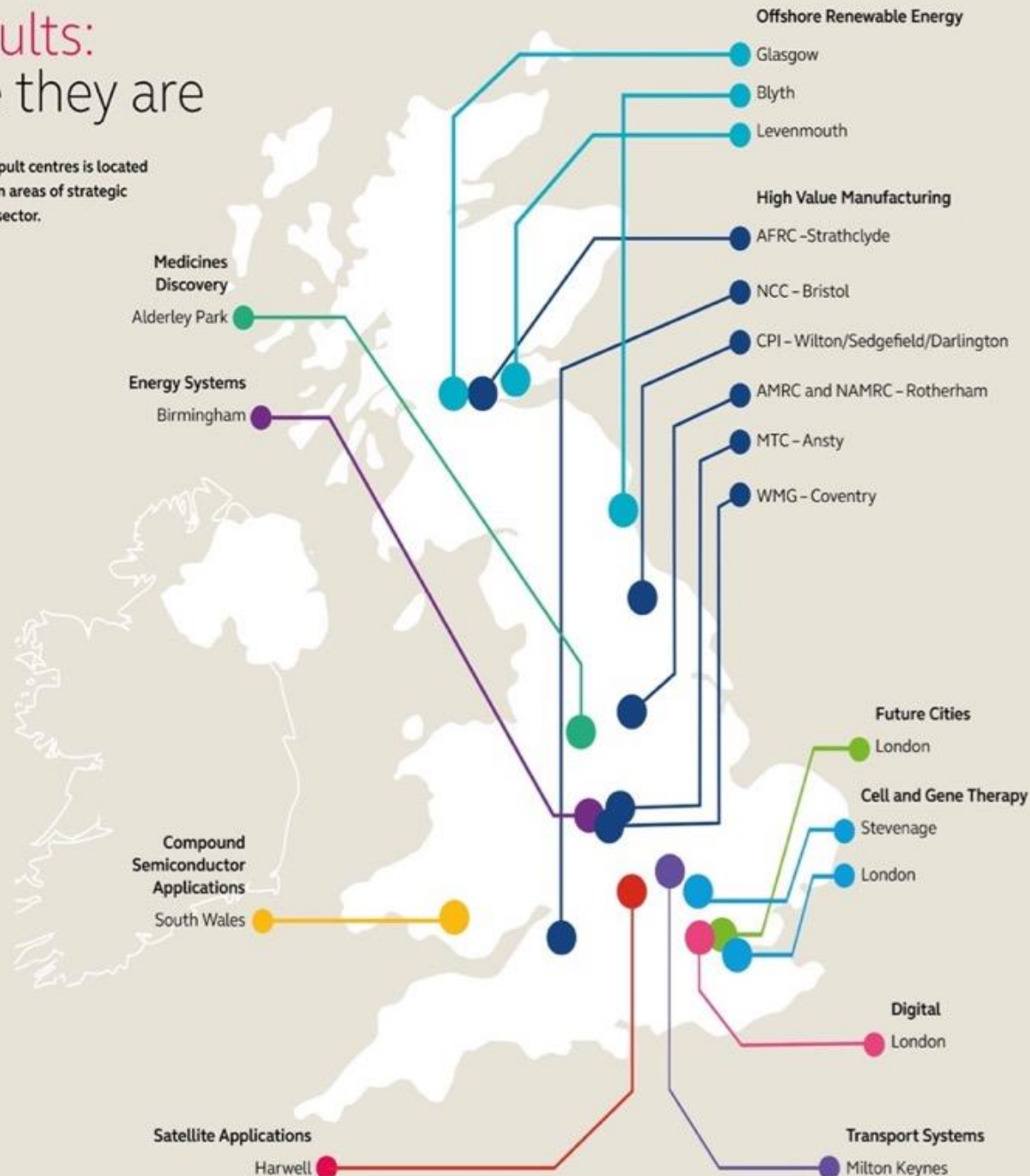


## Priority areas

- 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

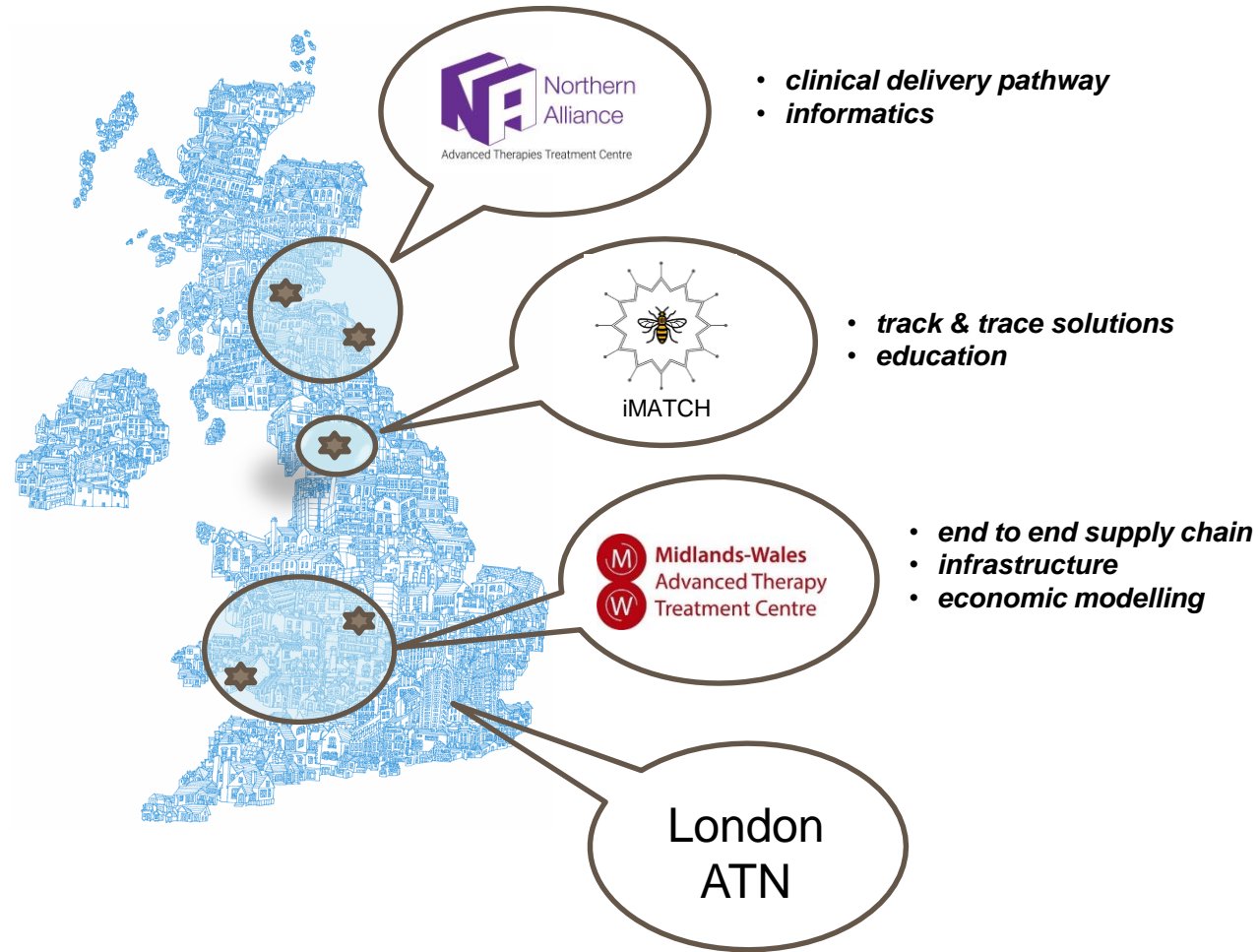
North East and Tees Valley  
Yorkshire  
Brighton  
Northern Ireland

### 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

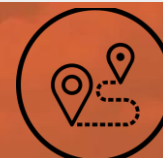
National Satellite Test Facility

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)



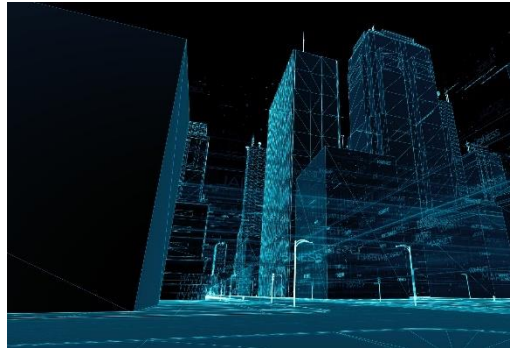
Healthy ageing  
(up to £98m)



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)

- 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

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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 25<sup>th</sup> July to 12<sup>th</sup> 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 25<sup>th</sup> July and closes noon 16<sup>th</sup> 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 23<sup>rd</sup> July and closes noon 25<sup>th</sup> 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 27<sup>th</sup> August and closes 25<sup>th</sup> 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

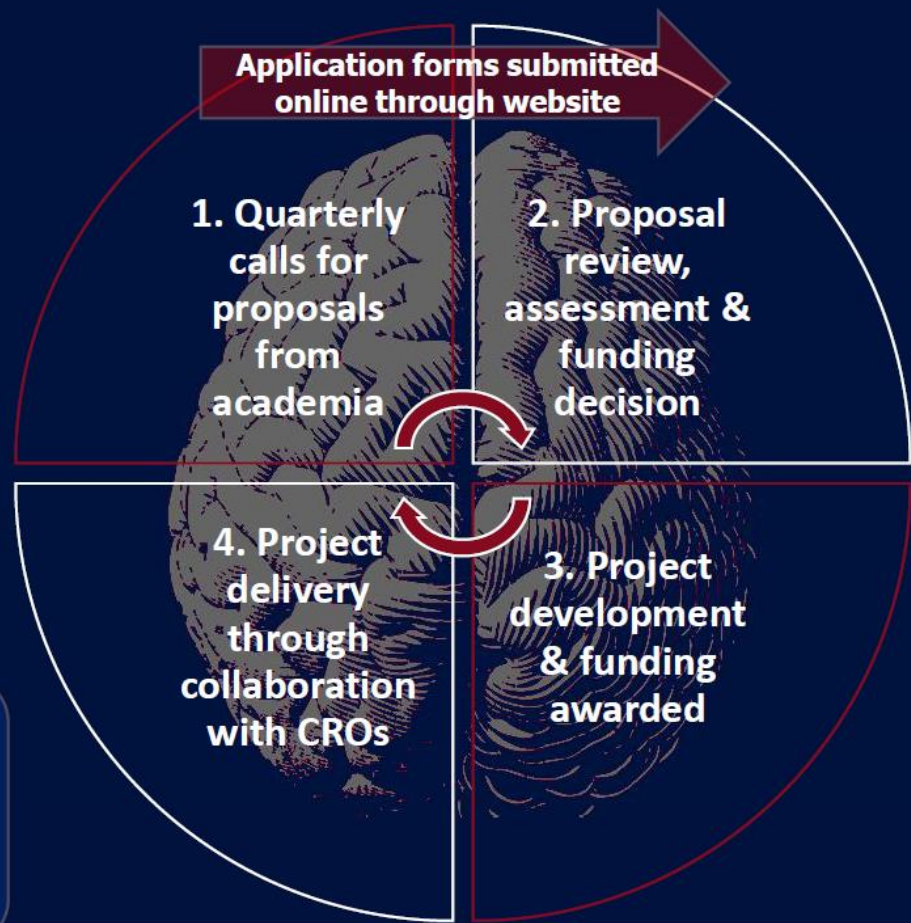
Lack of novel, validated drug targets

## 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

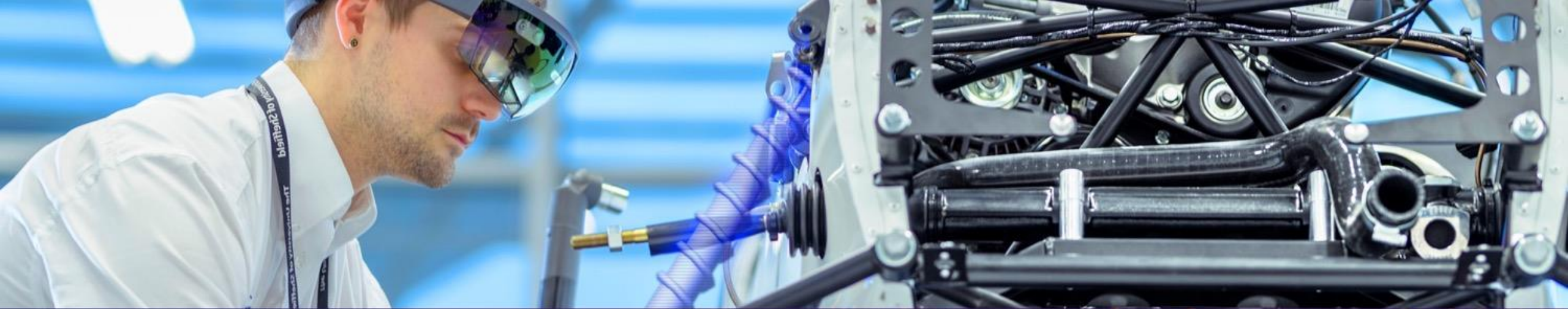
- ❖ Academic institutions worldwide
- ❖ Preclinical projects focused on the validation of novel targets & their relevance to disease



# 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](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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Innovate UK is part of  
UK Research and Innovation