

# KTN Introduction

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@DavidKTN

**Innovate UK**  
Knowledge Transfer Network

[ktn-uk.org](http://ktn-uk.org) @KTNUK



# The Innovate UK family



Department for  
Business, Energy  
& Industrial Strategy

UK Research  
and Innovation



*Business Support on Your Doorstep*



**CATAPULT**



# Innovate UK

*Is the UK's innovation agency.*

*Our mission is to **accelerate UK economic growth**  
through funding and connecting  
**business-led innovation**  
throughout the UK*

KNOWLEDGE

ECONOMY

SOCIETY

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

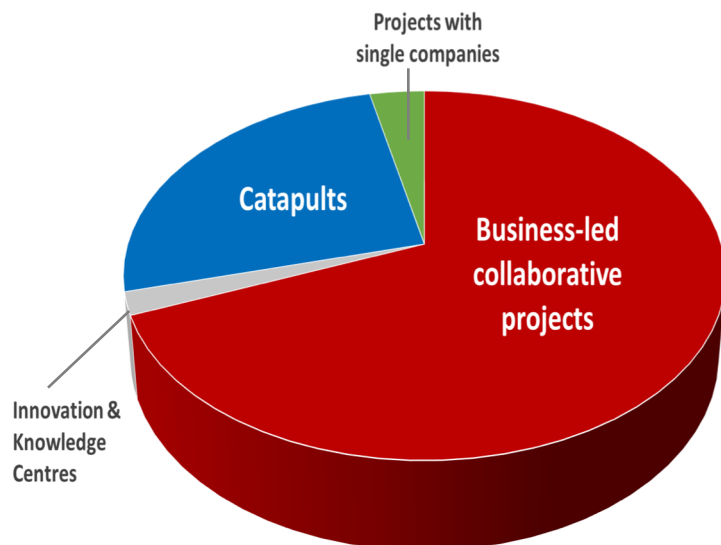
**70,000**  
jobs created in total



# Who does Innovate UK fund?

## **FY16/17:**

- Innovate UK's core budget was £586.6m (including £213m to fund Catapults)
- In addition we received a non-core budget of £251.8m
- Making a total budget of **£838.4m**



**2,900 organisations / year**

**2,400 projects / year**

- **≈ 60%** of our core grant funding goes to SMEs
- **≈ 80%** of collaborative projects involve at least 1 research base partner
- We work with **over 140** individual research base organisations (including institutes and RTOs)

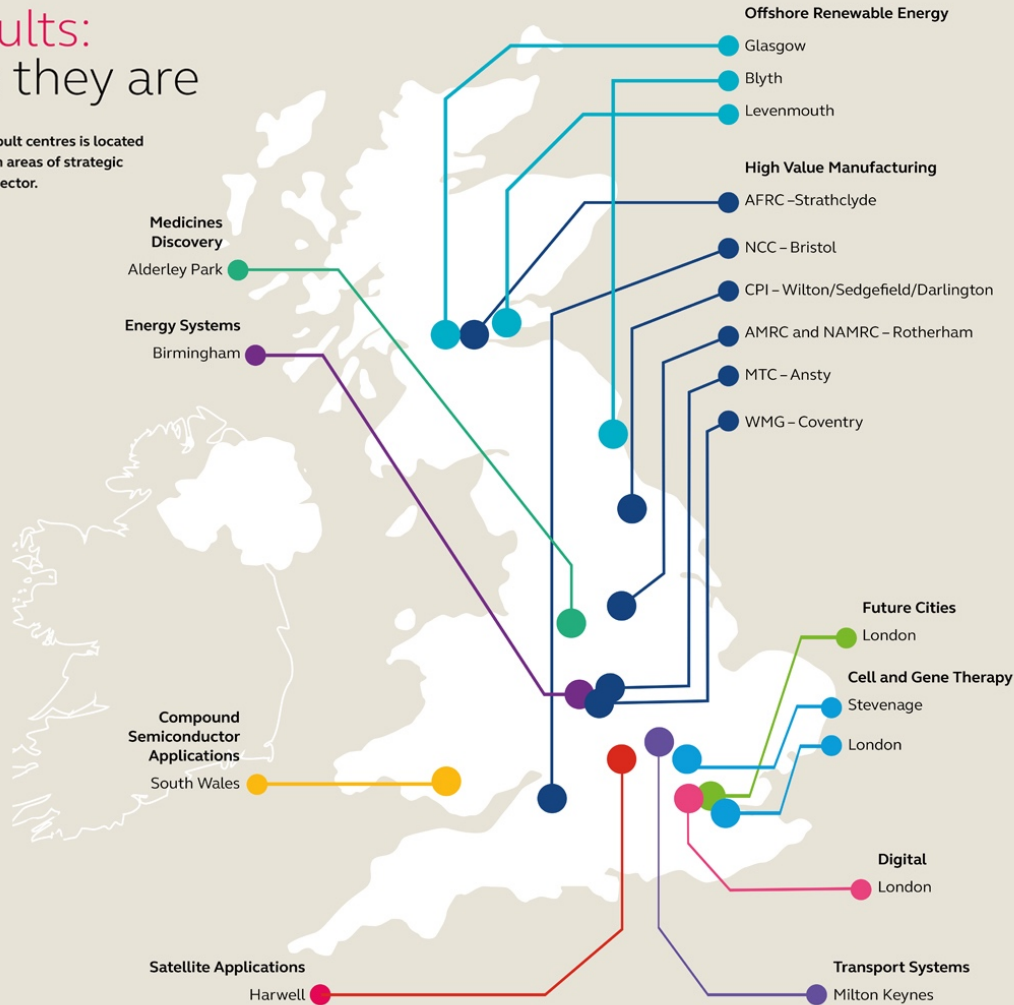


## Innovate UK *regional presence* across the UK, working to:

- strengthen relationships
- connect Innovate UK family with regional stakeholders
- ensure a coherent strategy across the UK

# 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

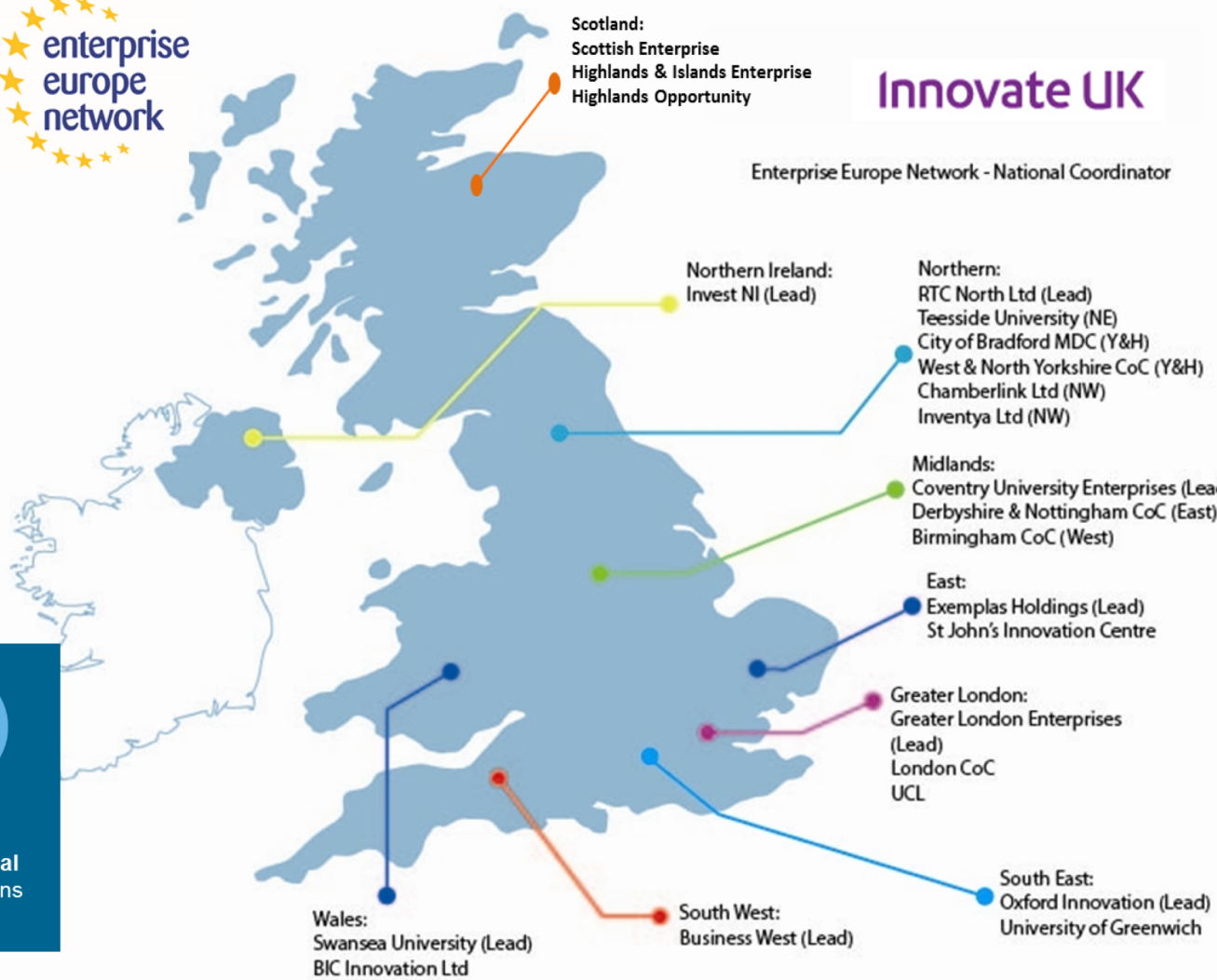
### Satellite Applications

North East	East Midlands
Scotland	South Coast
South West	



# Innovate UK

Enterprise Europe Network - National Coordinator



**6,456 SMEs**  
advised and supported



**1,005 companies**  
intensively coached and mentored



**271 international**  
brokerage events and missions



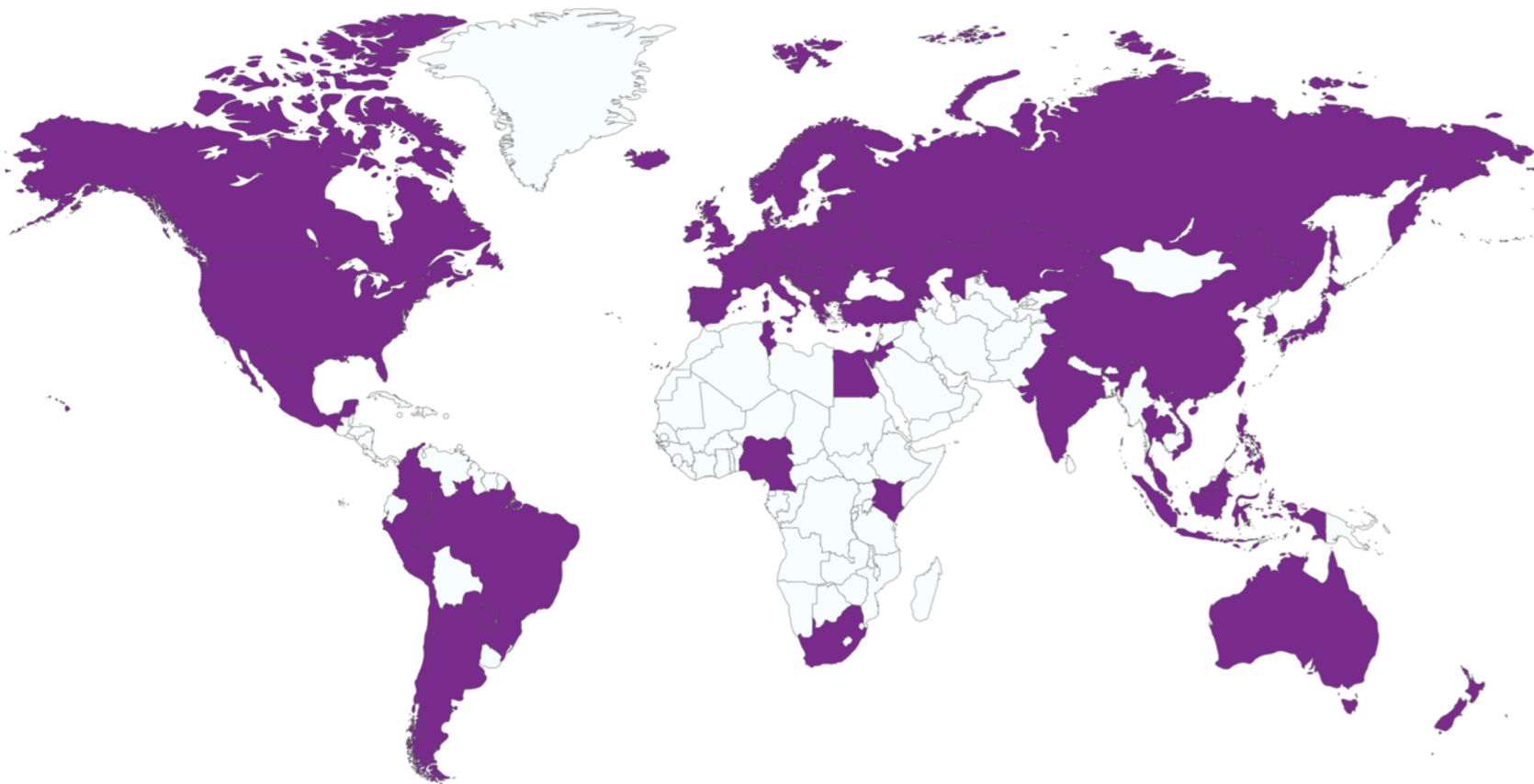
**£57.6m finance**  
raised through direct EEN support



**1414 specific international**  
collaborations



As the UK's innovation agency, we work with 75 countries



Innovate UK





# KTN

(Knowledge Transfer Network)

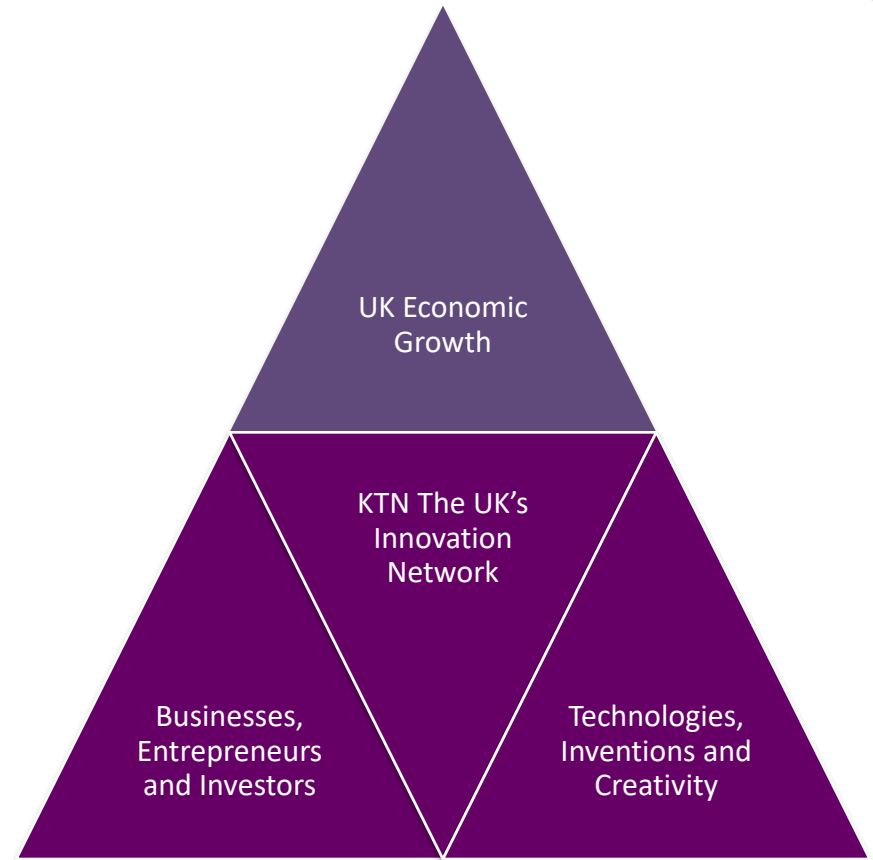
# KTN's Mission

(Who we are & why we exist)

**KTN is the UK's innovation network.**

Our mission is to deliver economic growth. We connect people to speed up innovation, solve problems and find markets for new ideas.

We bring together businesses, entrepreneurs, academics and funders to develop new products, processes and services.



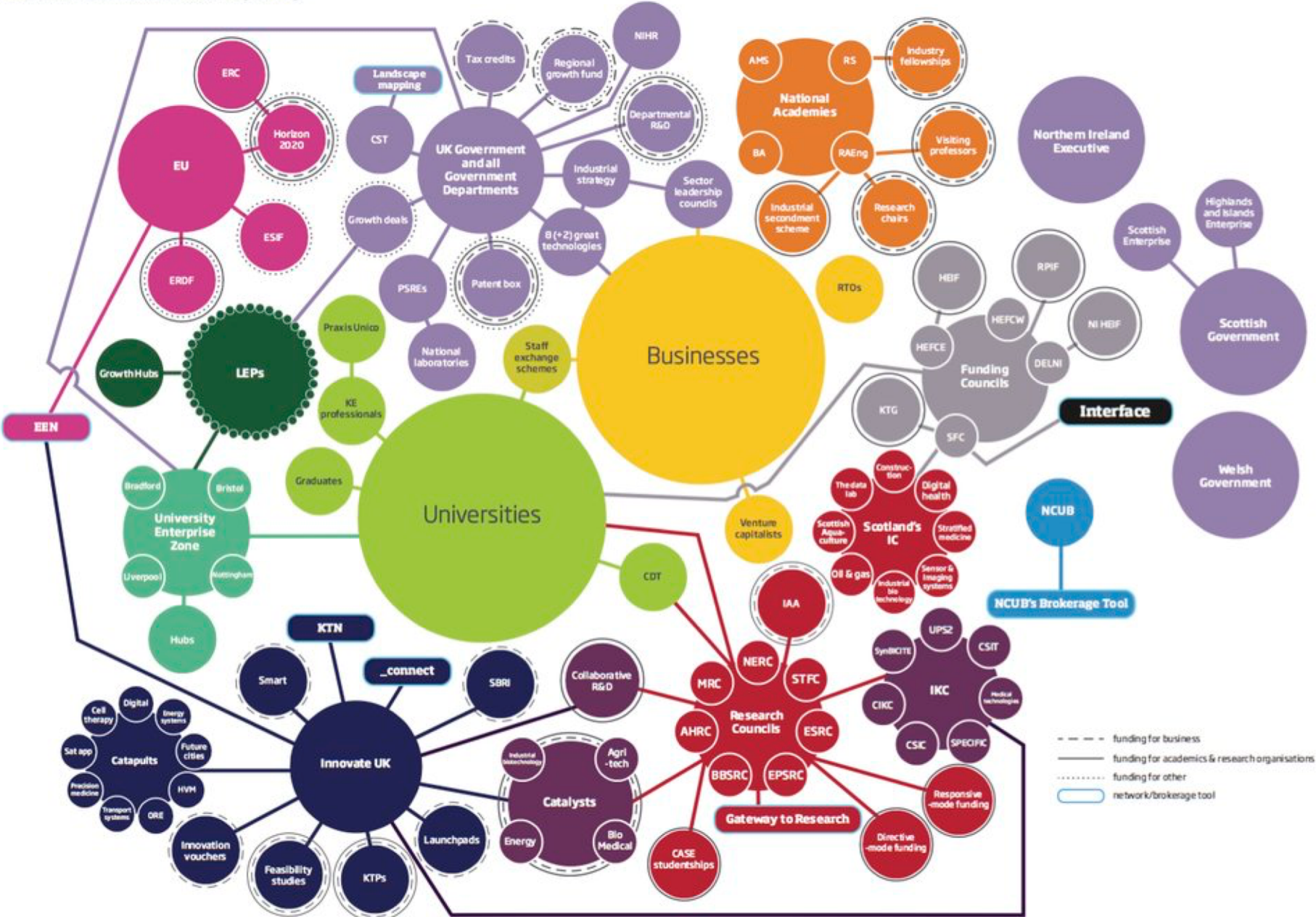
# KTN Objectives

- Increase business led R&D
- Facilitate exploitation of R&D to capture more UK value from innovation
- Increase collaboration between businesses (B2B) & between businesses and the research base (B2R) for UK benefit
- Be the strategic partner of choice for innovation networking
- Provide breadth and depth of expertise for businesses looking to innovate

# The KTN Offer

- **Information & News**
  - Monthly newsletters dedicated to specific communities
- **Events and activities**
  - For knowledge transfer & collaboration
  - Competition briefing & consortium building events
  - >10,000 delegates/year
- **Partnering**
  - Access to strong network of industry & research partners – proactive partnering
- **Funding**
  - Help finding & obtaining the right funding
  - **KTP Programme via our Knowledge Transfer Advisors**

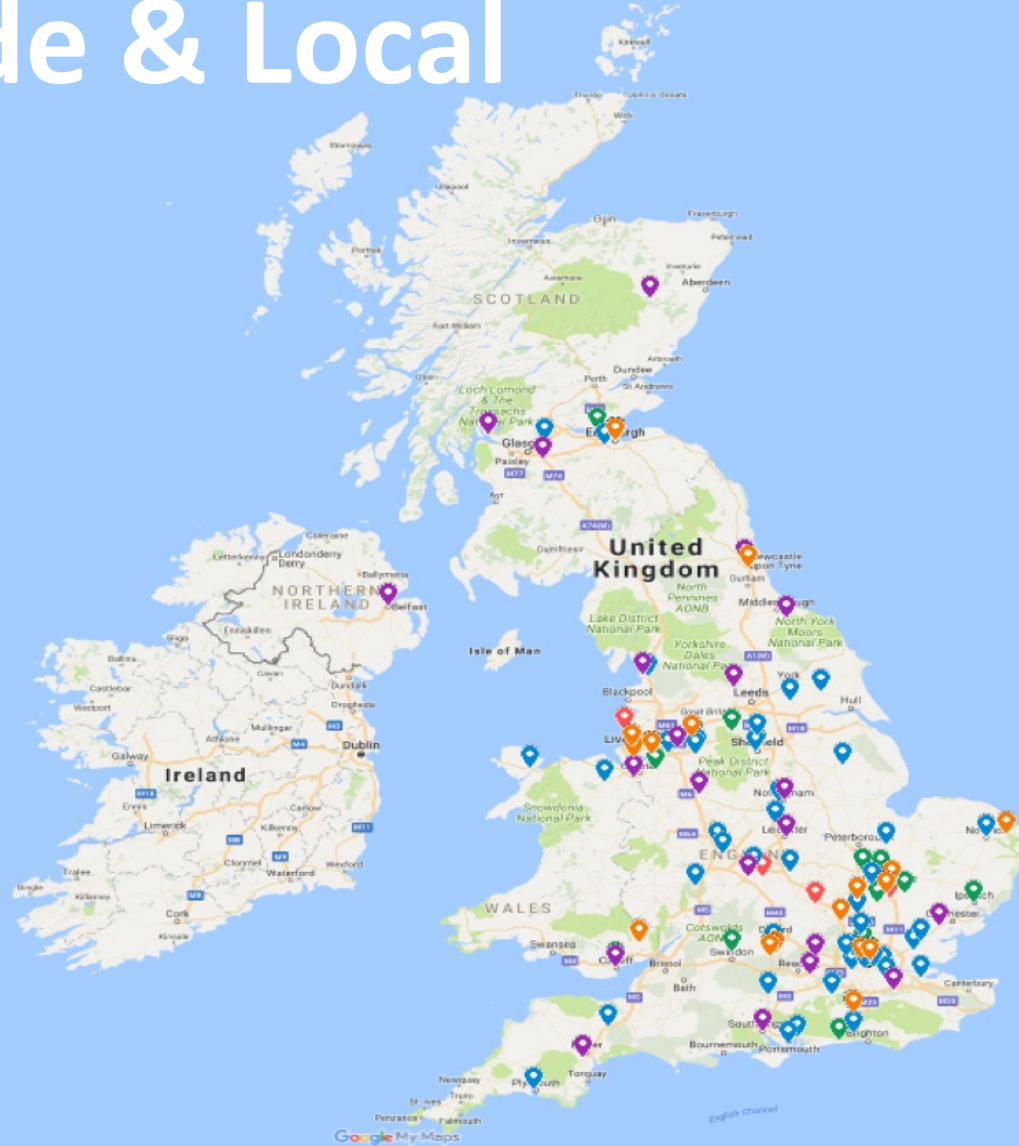
**Figure 10**  
**Research and Innovation Landscape Map<sup>37</sup>**



# Breadth of expertise



# KTN: UK-wide & Local -people





# Recent Feedback from KTN Evaluation

- Adds value as a “free, neutral, and importantly trusted organisation” with a “national reach”
- Overall “package of support” is “a key strength”
- Most useful interactions (in correlation with impacts) were:
  - Speaking with a KTN expert
  - Attending a KTN event
  - Participating in a Special Interest Group
- “KTN also generates important strategic outcomes, in particular improving the policy and strategic landscape for business-led innovation”

**SQW evaluation with 500 businesses in late 2017**

**Health**

**Innovate UK**  
Knowledge Transfer Network

[ktn-uk.org](http://ktn-uk.org) @KTNUK



# KTN Health (Life Sciences)

## Medicines

- Discovery and development
- Scale-up and manufacture

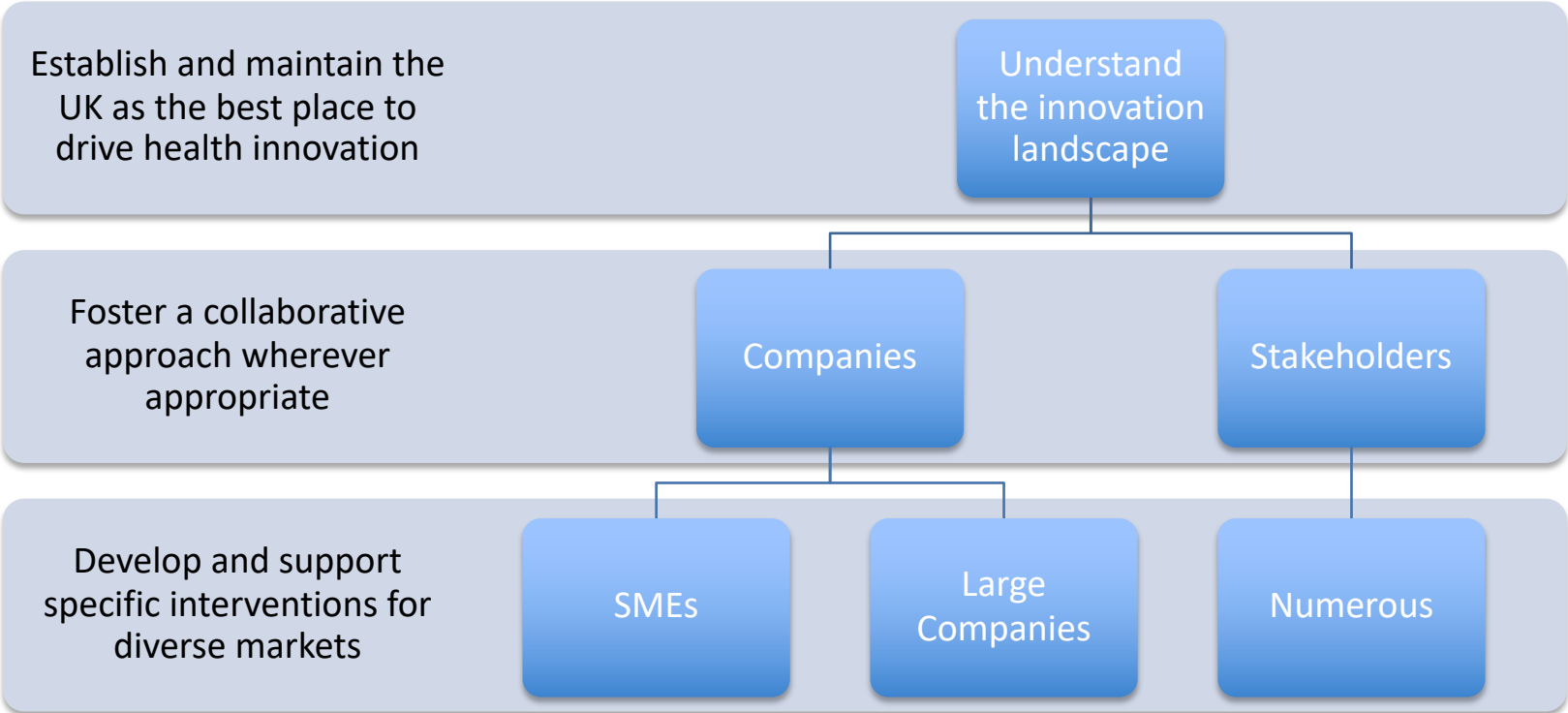
## Med Tech

- In vitro technologies (including wearables)
- Implantable technologies

## Digital

- Systems for diagnosis/remediation of disease
- Data in health & care

# KTN Health Priorities

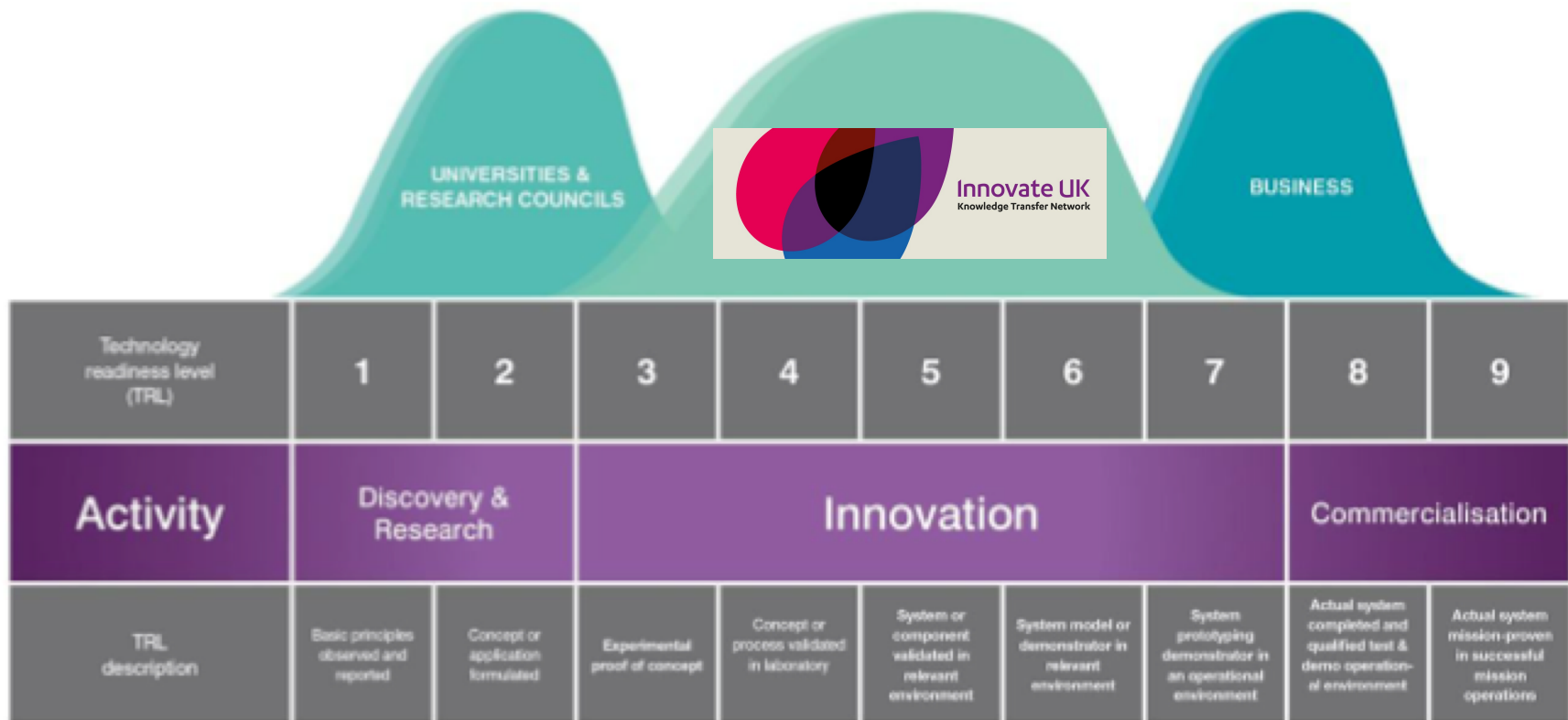




# Funding Overview

Innovate UK Grants and Programmes

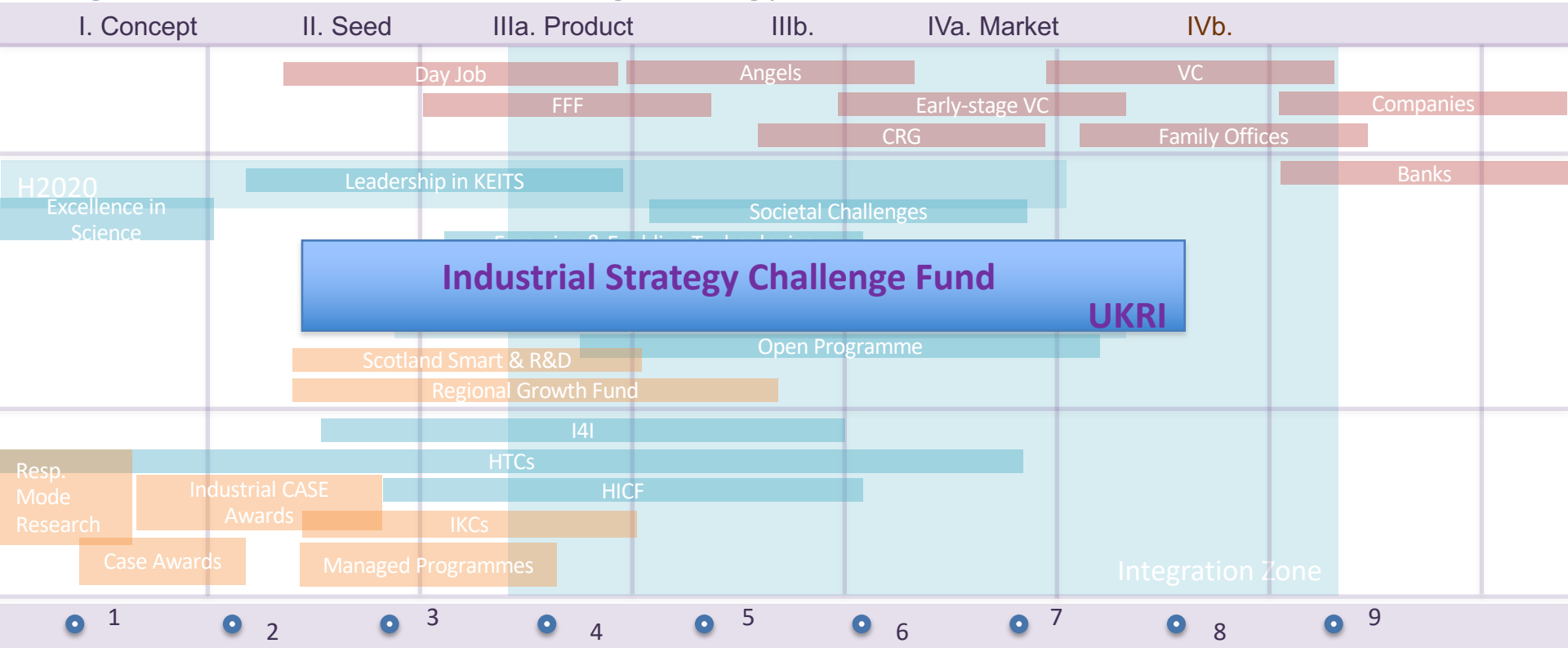
# Technology Readiness Level

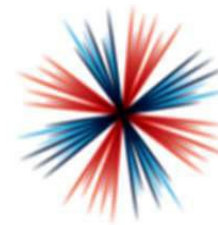


Source: The NASA-developed Technology Readiness Level model<sup>17</sup>

# Innovation Funding

## Integrated Public / Private Funding Strategy – Health Focus





**INDUSTRIAL  
STRATEGY**

Commit to reach 2.4% of GDP investment in R&D by 2027

Industrial Strategy Challenge Fund





# KTN Fit: Enabling “the World’s most innovative economy”\*

“...do more to address some of the frictions in the system to support collaboration and the flow of knowledge between research base and industry, accelerating the path to market.”

*\*Industrial Strategy White Paper 2017*

## Industrial Strategy Challenge Fund

Develop UK industries that are fit for the future, driving progress in technologies where the UK can become a world-leader in research and commercialisation



Industry-led and powered by multi-disciplinary research and business academic collaboration

### Clean growth

- Energy revolution
- Transforming construction
- Transforming food production

### Ageing Society

- Medicines manufacturing
- Data to early diagnosis and precision medicine
- Healthy ageing

### Future of mobility

- Faraday battery challenge
- Extreme robotics
- National space test facility
- Self-driving vehicles
- Mfg & materials of the future

### Artificial intelligence and data economy

Audience of the future / Next generation services (pioneer) / Quantum technology (pioneer)

# Open Programme Grant Funding Competition

- Innovate UK are **evolving and simplifying** our funding **to better suit business needs**; this means running regular competitions with an open scope.
- This will create **more opportunities to apply**, with **greater flexibility on scope**, **larger grant availability for single company** applicants, making our funding **better suit company business cycles**.
- The intention is to always be 'open for business' - the current competition closes on 14<sup>th</sup> November and the next will open soon after that date

# Open Competition

## Round 3 2018 – Open Now

- Total of £20m available in round 3, designed to support the **best game changing and/or disruptive ideas or concepts with a view to commercialisation** as soon as possible
- The competition is open to **any sector** of the economy and **any company size, universities or RTOs in any region of the UK**
- Bids must be **business led** and can be **collaborative or single applicant**, with project sizes from **£25K - £2m** and durations between **6 and 36 months**
- <https://apply-for-innovation-funding.service.gov.uk/competition/243/overview>

# Digital Health Technology Catalyst Round 3 – Open Now

- Total of £35million over four years. Part of Industrial Strategy Challenge Fund under Ageing Society
- Bids must be **business led** and can be **collaborative or single applicant (for feasibility studies)**, with project sizes from **£50K - £1m** and durations between **6 and 36 months**
- Round 3 Open now closing 31<sup>st</sup> October
- <https://apply-for-innovation-funding.service.gov.uk/competition/225/overview#summary>
- <https://apply-for-innovation-funding.service.gov.uk/competition/226/overview#summary>

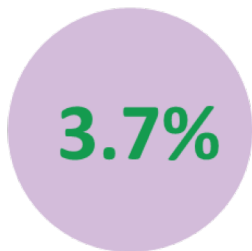


# Innovation Loans (Open Competition)

# Affordable, flexible and Patient



Single  
Applicant  
SMEs only



Low interest  
rate



Flexible & patient  
Up to 10 years



Up to 100% of  
project costs  
Later stage R&D



Loan size  
£100k to £1m

<https://apply-for-innovation-funding.service.gov.uk/competition/232/overview>

## Open Competition Innovation Loans

Innovation loans ARE..	Innovation loans ARE NOT..
Complementary to grants	A replacement for grants
For later stage R&D projects	For match funding a grant
A pilot programme (£50m over 2 years)	Core competitions
Repayable	Free money
On beneficial terms (State Aid)	Typical commercial terms
'Reasonably' collateralised	Unsecured (or PGs)
Available to single SMEs only	Available to sole traders, large companies, universities, collaborative consortia
Competitive, to support the most innovative projects	Always open, for any purpose, for the 'easy stuff'
For SMEs needing public support	For those who can / should borrow commercially





# Other Grants Overview

# What types of grants are there?

## Regional

- Scottish Enterprise (HIE)
- NHS
- Creative England

## National

- Innovate UK
- KTPs
- Research Councils
- NESTA

## European

- H2020
- SME Instrument
- Eurostars

## Sector Specific

- SBRI
- NHIR i4i
- DHTC
- BMC



# Innovate UK (full list)

<https://apply-for-innovation-funding.service.gov.uk/competition/search?page=0>



# SBRI and SBRI Health

<https://sbrihealthcare.co.uk/competitions/>



## Periodic Calls

1. Previous themes include Future GP, Improving patient flow, Diabetes and Cancer care
2. Pre-competitive Procurement model (not a Grant)
3. 100% funding
4. Known as SBRI Health Care in England



# H2020 – SME Instrument

<https://ec.europa.eu/programmes/horizon2020/en/area/smes>



# Always Open – but 4 ‘cut-off’ points per year

1. Two phases but phase 1 optional
2. Phase 1 E50k 70% funded – proof or concept 6 months
3. Phase 2 E550K – E2.5M typically 70% funded
4. Single company can apply
5. Most funded SME’s have 4 years trading
6. Need clear route to market with impact accruing within EU
7. Now a fully ‘open’ programme
8. EEN can support
9. [http://ec.europa.eu/research/participants/data/ref/h2020/wp/2016\\_2017/main/h2020-wp1617-sme\\_en.pdf#page=7](http://ec.europa.eu/research/participants/data/ref/h2020/wp/2016_2017/main/h2020-wp1617-sme_en.pdf#page=7)



# NIHR i4i

<https://www.nihr.ac.uk/about-us/how-we-are-managed/boards-and-panels/programme-boards-and-panels/invention-for-innovation/>



# Summary

- Providing access to funding & support
- Setting up collaborative partnerships
- Linking the innovation landscape
  
- Come along to our events
- Sign up for our free newsletter

[www.ktn-uk.org](http://www.ktn-uk.org)  
[@KTNUK](https://twitter.com/KTNUK)

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