

ROLE OF THE KTN

Simon Baty
Knowledge Transfer Manager -
AgriFood



A network of networks

KTN has over 140,000 contacts
across all UK business sectors
and technologies

Innovate UK
Knowledge Transfer Network



Find Solutions. Find Markets

90% of the collaborations facilitated by KTN are expected to lead to collaborative R&D activity and the progression of commercial opportunity

Innovate UK
Knowledge Transfer Network



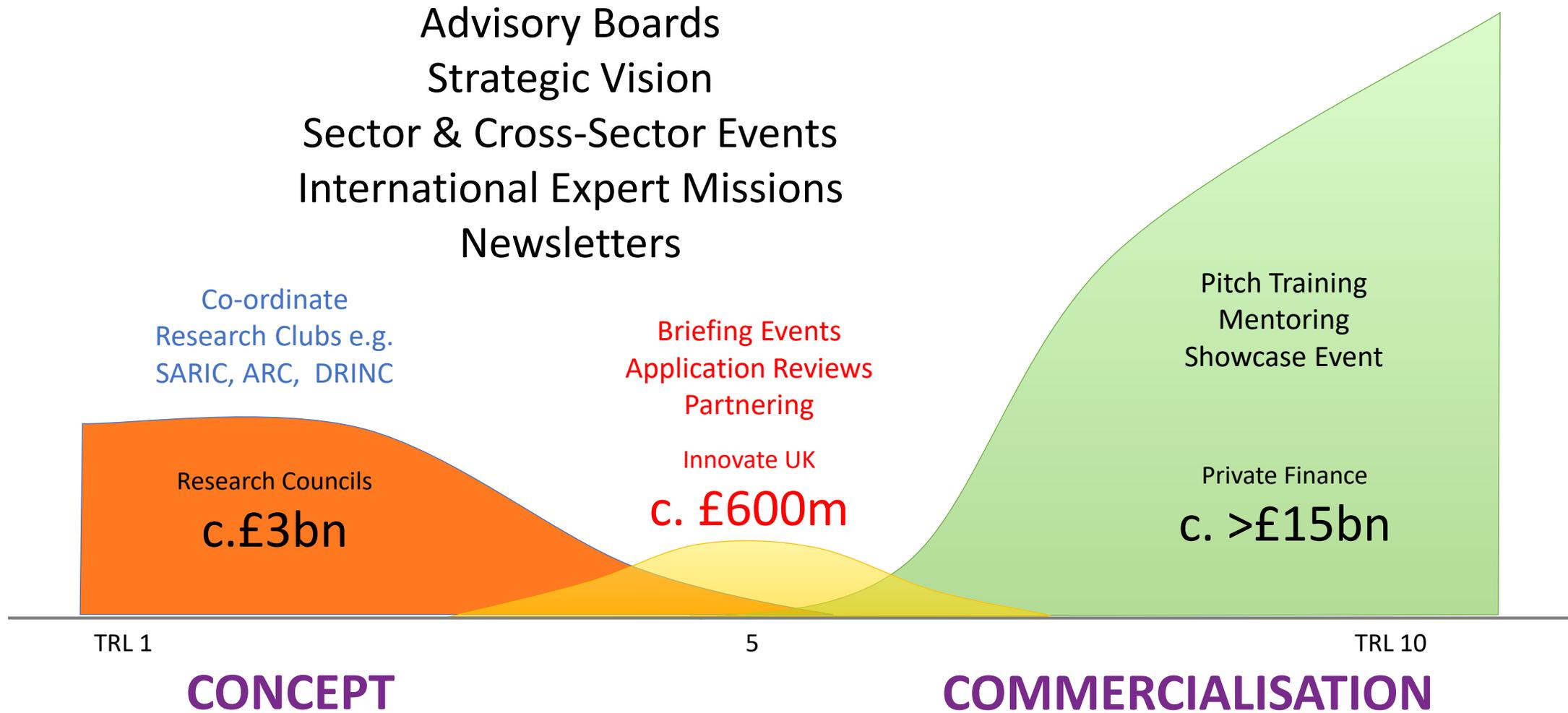
Why talk to KTN?

The innovative businesses we
work with describe us as
neutral and trusted

Innovate UK
Knowledge Transfer Network



UK R&D Spending - Role of KTN

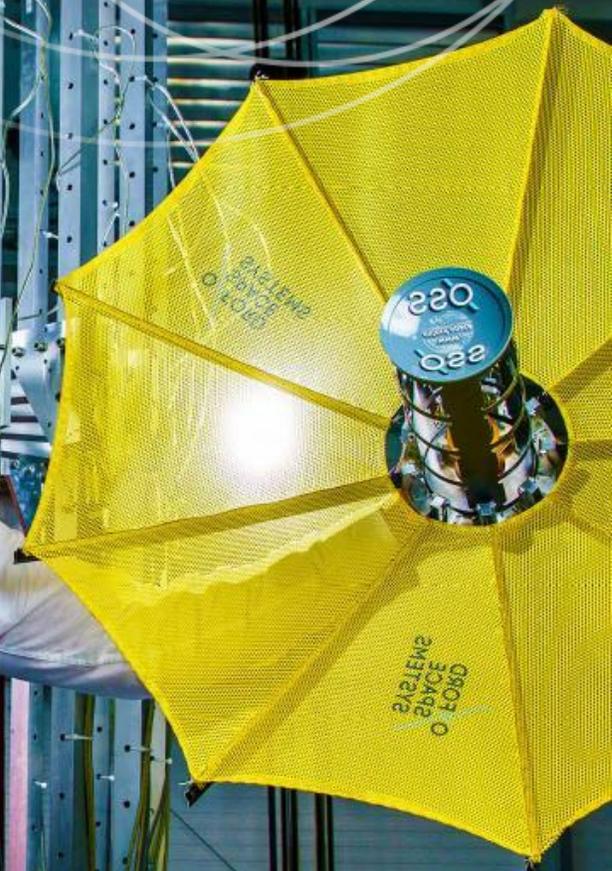


Innovate UK

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





As Innovate UK's network partner, KTN combines in-depth expertise in all sectors with the ability to cross boundaries. Connecting with KTN can lead to potential partners, horizon-expanding events, and innovation insights relevant to your needs

Innovate UK
Knowledge Transfer Network
ktn-uk.co.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



AGRI PRODUCTIVITY

Novel genetics / breeding

Combating agro-chemical and anti-microbial
resistance

Enhanced resilience to biotic and abiotic stress

Individualised livestock/aquaculture nutrition &
healthcare

Advanced & Precision Engineering



FOOD QUALITY

Reducing Sugar, Salt & Fat

Enhanced nutritional value

New/smarter ingredients

Protein development

Authenticity & Traceability

Food Safety

Smarter Packaging

Modern food manufacturing technologies



Building on UK strengths & cross sector working
Nurturing disruptive technologies

Canada-UK call: Enhanced Industrial Productivity

- Industry-led research across
- £10 million funding available, across two themes:
 - Advanced and High Value Manufacturing
 - Food Production and Nutrition
- Funding projects up to £1m
- Max. grant of up to £200,000 for UK
- Max. grant of up to \$300,000 for Canada



Enhanced nutritional value
Novel ingredient development
Sustainable protein development
Food safety, authenticity & traceability
Processes to improve shelf life & reduce waste
Smarter Packaging
Improved manufacturing efficiency

Open date: 11th February 2019
Canada EoI deadline: 15th April 2019
Registration deadline: 2nd May 2019
Close date: 9th May 2019 5pm



AgriTech Catalyst

- Funding available for projects working with partners in Africa - £3m
- Must deliver impact for poor people in Africa
- Scope of the Catalyst includes:
 - primary crop and livestock production including aquaculture
 - non-food uses of crops, excluding ornamentals
 - challenges in downstream food processing, distribution or storage and value addition
 - Improving availability and accessibility of safe, healthy and nutritious foods



Open date: 1st April 2019

Registration deadline: 29th May 2019

Close date: 5th June 2019 noon

Online Theme Specific Brokerage Events: 5th April 2019

Online competition briefing: 9th April 2019

Innovation loans

For businesses on the edge of greatness

We are running a pilot programme of loan competitions to the end of 2019. The programme is aiming to ensure that businesses can access funding at all stages of innovation.

Up to **£50 million** available for business innovation projects near to market

Offered through competitions to UK SMEs that want to scale up by developing new services

Can be used for late-stage R&D projects not yet at the point of commercialization

Delivered by Innovate UK Loans Ltd, a wholly-owned subsidiary of Innovate UK

Innovate UK

Open funding – Smart grants

For businesses in any sector

Innovate UK

- open funding enables businesses to apply for grant funding regardless of technical or industrial area of focus
- funding is offered to businesses that submit the best proposals in a competitive application process
- Open competitions, each typically offering £20 million funding

Paul Holt, Founder, Photocentric



Innovate UK Smart Grants

- Opportunity to apply for a share of up to **£25 million**
- 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 focused** and **must** be either:
 - between **6 and 18** months with total costs between **£25K and £500K** and **may** be **single** or **collaborative** applications
 - between **19 and 36** months with total costs between **£25K and £2M** and **must** be **collaborative** applications

Innovate UK



Open date: 26th April 2019

Close date: 24th July 2019 12 noon



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 1 Challenges (c. £1bn)



Leading-Edge Healthcare Challenge (including Medicines Mfg) up to £188m



Faraday Battery Challenge up to £246m



Robotics and AI in extreme environments Challenge up to £93m



Next Gen. Affordable Lightweight Materials Mfg (ATI projects) up to £26m



Autonomous Vehicles (CAV projects) up to £38m



National Satellite Test Facility up to £99m

Underpinning UKRI investments (Wave 1a) up to £283m

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)



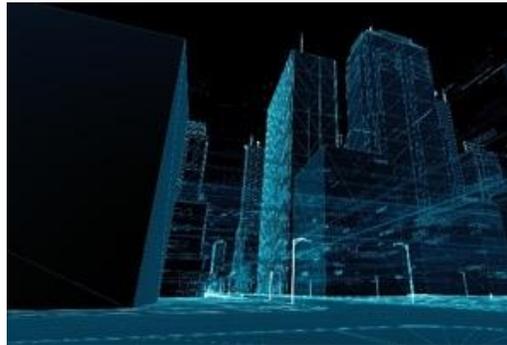
Healthy ageing
(up to £98m)



Next generation services
(up to £20m)



Quantum technology
(up to £20m)



Transforming construction
(up to £170m)



Transforming food production
(up to £90m)





Transforming food production

The challenge is that our food needs to be much more efficient and sustainable. By using precision technologies we can make that a reality: transform food production while reducing emissions, pollution, waste, and soil erosion. By putting the UK at the forefront of this global revolution in farming, we will delivering benefits to farmers, the environment and consumers while driving growth, jobs and exports.

Smart Sustainable Plastic Packaging

Innovate UK

To establish the UK as a leading innovator in smart and sustainable plastic packaging for consumer products, delivering cleaner growth across the supply chain, with a dramatic reduction in plastic waste entering the environment by 2025.

1. new, recyclable materials;
2. new designs for consumer-friendly packaging, with improved functionality and sustainability;
3. new recycling technologies and processes to recover packaging after its use;
4. new supply chain and business models based on the above; and
5. increased understanding of environmental impacts of existing and new plastics; and consumer behaviour.

The programme will aim to deliver a circular economy for plastic packaging in line with the UK Plastic Pact targets.

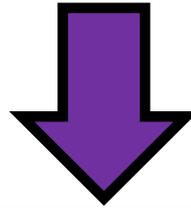


Plastics Research and Innovation Fund



UK Manufacturing Made Smarter

Ensure the long term prosperity of UK Manufacturing, raising total productivity by 30%, making the UK a global leader of the 4th Industrial Revolution and delivering clean growth.



- Provides UK focal point for 4th industrial revolution
- Focuses on fusion of industrial digital technologies (IDTs)
- Cross sector challenge – discrete & process manufacturing, deep tech
- Targets early adopters of IDTs incl. supply chains and SMEs
- Builds on UK excellence in digital tech



Simon Baty

simon.baty@ktn-uk.org 07931 511641

Thank You