

**GLEAM** presents

Funding and Support for Innovation

#### in Manufacturing

Thursday 6th June | 08.30 - 12.00

The Bridge, University of Lincoln





## Agenda

- 09.00: Welcome and Introduction to GLEAM and the Bridge Matthew Thornton, Commercial Manager, The Bridge, University of Lincoln
- 09.10: Business Lincolnshire and Made Smarter Support for Manufacturers Harry Haslam and Trevor Durant, Business Lincolnshire & Chris Owens, Made Smarter
- 09.40: Support for Manufacturers from the Banking Sector Garry Wilkinson, NatWest
- 10.00: Coffee and Networking
- 10.20: The Future of R&D Tax Relief Julia Clarke, Wright Vigar
- 10.40: National Grant Funding for Manufacturing Stephen Morris, Innovate UK Business Connect
- 11.00: Regional Support for Innovative Manufacturing lan Evley, Innovate UK Business Growth
- 11.20: Wrap Up and Optional Tours of the Bridge
- 12.00: Close and depart



# **Creating a Manufacturing** Community F GLEAM NETWORK

- The Greater Lincolnshire Engineering And Manufacturing (GLEAM) Network is an initiative founded by the University of Lincoln,
   Greater Lincolnshire Local Enterprise Partnership (GLLEP), and Business Lincolnshire and managed by the Bridge.
- GLEAM provides a knowledge-intensive business corridor locally at the heart of the manufacturing business in Greater
   Lincolnshire and is open to all manufacturing businesses in Greater Lincolnshire. Members are able to join free of charge and gain access to a range of benefits, including Affiliate Partner Membership with Make UK.

### Make UK Affiliate Membership Benefit

#### Join Make UK as an Affiliate Member

- Make UK Affiliate Membership is open to members of Make UK partner organisations. You'll receive industry information and insight, contribute to Make UK's policy positions and have access to events, guidance and support on issues affecting our sector.
- To register for Affiliate Membership just complete the form at:

https://www.makeuk.org/affiliate-member-registration



Rewarding your work, your people and your business.

# MANUFACTURING

Business & Apprentice Entries Now Open >> makeuk.org/awards

Category Sponsors:





ADVANCED ENGINEERING 30 & 31 October 2024, NEC







Partners:

Media Partners:





Join us for the upcoming Greater Lincolnshire Regional Defence & Security Cluster Strategic Hackathon 2024!

This strategic hackathon will be led by the University of Cambridge and the Institute for Manufacturing.

The workshop's focus is on leveraging low-cost technologies to identify specific solutions that enhance productivity, efficiency, customer experiences, and digital skills within companies.

Date: Tuesday 11th June 2024 Time: 10am-4pm Venue: The Engine Shed (University Of Lincoln, Brayford Pool, Lincoln, LN6 7TS)

> Register your free place via <u>GLRDSC@lincolnshire.gov.uk</u>.

## **BRIDGING BUSINESS WITH INNOVATION**

- Bridge operates from the University of Lincoln and has a dedicated team of R&D project specialists working alongside the University's academic community.
- We help businesses access technologies and methods at the forefront of research to create R&D solutions, and drive innovation.



BRIDGE





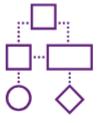


# Bridge – Advanced Materials and Engineering R&D Centre



#### CONSULTATION AND 1-2-1 SUPPORT FOR BUSINESS DEVELOPMENT

Our process builds on an initial 1-2-1 consultation, roadmapping potential programmes from small-scale interventions to large-scale projects.



#### CREATION OF NEW PROCESS AND PRODUCT INNOVATION WITH OUR DEDICATED BRIDGE TEAM AND R&D PARTNERS

Bridge can address your advanced materials needs, assisting with new process creation and product innovation; providing access to worldclass R&D at the interface of science and engineering through links to the University of Lincoln and a consortium of industry R&D partners.



#### MATERIALS RESEARCH AND INNOVATION

Bridge provides access to state-of-theart instrumentation and laboratory workspaces. Our scientists and engineers are experienced in delivering cutting edge insight into materials

BRIDGE

# Bridge – Advanced Materials and Engineering R&D Centre



#### EXPERT USE OF INSTRUMENTATION AND MATERIALS ENGINEERING LABORATORIES

Our dedicated team of specialists includes a community of expert Instrument Scientists. We can share that knowledge and help upskill your team by creating bespoke training packages.



#### BUSINESS NETWORKING AND COLLABORATION

Our dedicated innovation centre provides a quality environment for business interaction facilitating exchange of expertise and business opportunities. We host a range of networking events and seminars and our facilities are available for businessled events.



#### TRAINING AND PROFESSIONAL DEVELOPMENT

Bridge houses a dedicated training facility for on-site and remote learning alongside laboratory settings for atinstrument or in-lab training. Bridge gives you direct access to academicand industry-experienced consultants to educate, develop and mentor your staff and they can upskill at our regular specialist courses.



### Bridge to... Manufacturing Innovation

- With programmes designed to increase businesses' competitiveness, Bridge has delivered innovation to businesses and connected regional and international supply chains to cutting-edge materials science and engineering in the manufacturing and engineering sectors.
- Bridge has supported manufacturing businesses to access technologies at the forefront of research to deliver effective problem solving and to develop the workforce of tomorrow through accredited training.

BRIDGE



- Visit our website for a virtual walkthrough of the Bridge at https://www.thebridge-lincoln.org/
- Follow us on:
  - https://www.linkedin.com/company/thebridge-lincoln
  - <u>https://twitter.com/thebridge\_linc</u>
  - <u>https://www.instagram.com/bridge\_lincoln/</u>
- E. <u>mthornton@lincoln.ac.uk</u>











thebridge-lincoln.org



#### Save the Date!

GLEAM next event is on **10 July 2024** at the Hub at the Food Enterprise Zone, Holbeach on **"New Technologies for Food Manufacturing - From Farm to Fork"**.

The topic will cover new technologies (robotics, AI, machine learning etc...) and digital manufacturing for food manufacturing and should encompass the full value chain from farm to fork, with scope to include cross over technologies and best practice demonstrations to/from other industry sectors.

Business Lincolnshire and Made Smarter Support for Manufacturers

Harry Haslam & Trevor Durant, Business Lincolnshire

Chris Owens Made Smarter







# Business Lincolnshire Growth Hub

Harry Haslam Growth Hub Adviser for South Kesteven and Rutland

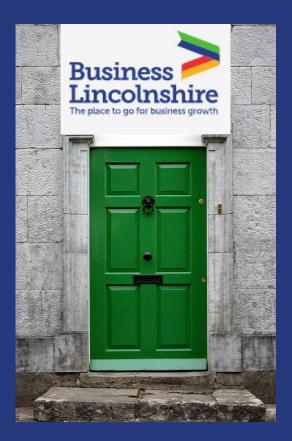
### The Growth Hub

The Business Support arm of the GLLEP

One stop 'growth shop'

Growth Hub Service – <u>'Front Door'</u>

Funded advisory support for Small and Medium sized enterprises through UK Government funding







### **Service Overview**

Website <a href="http://www.businesslincolnshire.com">www.businesslincolnshire.com</a>

**Advice and Grant Finder** 

Business Growth Advisers and Specialist Advisers

Facilitate access to other local and national programmes

Workshops, briefings and flagship events



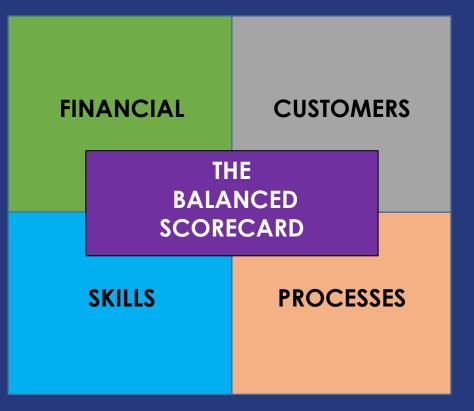




### The Process

**Growth Hub Adviser Process:** 

Diagnostic – 1:1 / 1: Many Research Action Plan Referrals to Specialist Support Grant Support Review Account Management







### **The Process**

Fully Funded Specialist Adviser support and programmes

Accessible via your local <u>G</u>rowth <u>H</u>ub <u>A</u>dviser







#### NEXT LEVEL PROGRAMME CONTENT & TIMING

#### LEADERSHIP WORKSHOPS

Programme begins with 2 x full day, in-person workshops for the business leader; the workshops will be roughly two weeks apart

#### 121 COACHING

2

Next the business leader will receive 2 x 1.5 hour coaching sessions delivered on Zoom; followed by a 30- minute accountabilities check-in call

#### DISC ASSESSMENTS

3

DISC personality assessments will be made available for up to 5 members of your leadership team

#### GROWTH SPRINT

4

Approximately 3 months after the first workshop, up to 3 members of the senior team from each business will attend a full day in-person Growth Sprint

#### ZELLAR SOFTWARE LICENCE

5

Once enrolled on to the programme, each business will have free access to a 12 -month license for the Zellar carbon benchmarking platform

#### ALUMNI PROGRAMME

6

Participants will have access to live webinars on business strategy and leadership; opportunities to take part in peer groups and an annual inperson event





### Register your business to receive support :

Ask me for a registration form via email <u>harry.haslam@bizlincolnshire.com</u>

Sign up for the Business Lincolnshire Bulletin www.businesslincolnshire.com/register

Follow us on – LinkedIn, Facebook, Twitter (X), Instagram











# Business Lincolnshire Growth Hub

#### Trevor Durant Manufacturing Advisor

Fully Funded Specialist Adviser Support – accessible via your local <u>G</u>rowth <u>H</u>ub <u>A</u>dviser







# Personal Background

- Manufacturing apprenticeship with Coca-Cola
- Experience in Soft Drinks, Brewing, Confectionery, Fresh Produce, Diary, and Textiles
- Well-connected across many businesses
- BSc in Design & Innovation
- Worked at all levels up to Board Director
- Focus on: Productivity, Quality, Process Improvement
- Passionate about developing process improvement skills
   within manufacturing









Mor





# **Overview of the role**

#### Outreach & Ambassador

- Offer GHA support with existing clients
- New / lapsed contacts in manufacturing
- Produce material for marketing services / website / blogs
- Content for relevant events e.g. Manufacturing Conference

#### Diagnostics & Action Plans

- Build on GHA diagnostic to better understand client position and priorities
- Creation of shared action plans
- Sign-post to further support: Made Smarter, Manufacturing Support Programme, Scale Up, GLEAM etc.
- Collate data and report

#### Provide & Build Manufacturing Skills

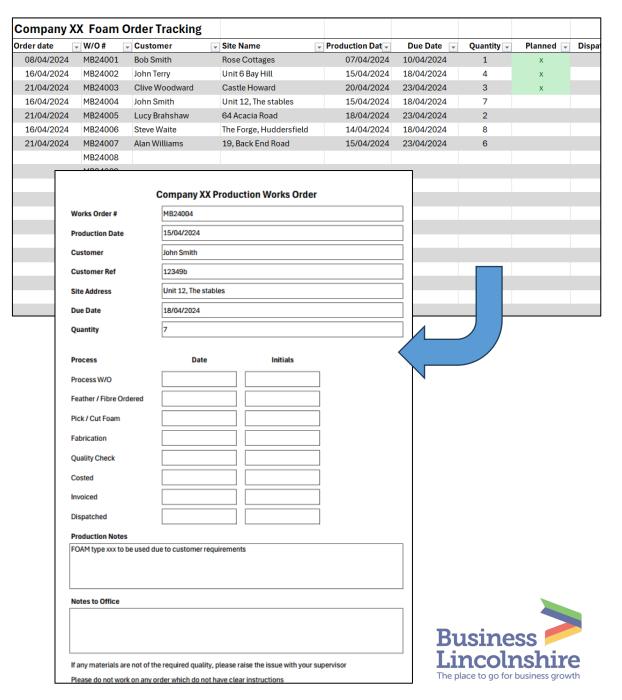
- Specific in-business support
- Deliver bespoke workshops:
  - Skills & recruiting
  - Industry 4.0
  - Quality
  - Productivity
  - Cost management
  - Etc.





# Case Study 1

- Business supplies foam components
- Going through a period of growth
- New members of the management team with a desire to improve systems
- Fully manual process from order collection through to invoice and ship
- Helped develop a rudimentary system for collecting orders, tracking progress and including approvals throughout the process





# Case Study 2

- Business imports and manufactures floor mats
- Going through a rapid period of growth
- The business wants to explore how ISO9001 might help add more structure to their processes and improve quality
- Developed a status tracker which highlights all requirements of the standard so the business can self-evaluate and decide on next steps

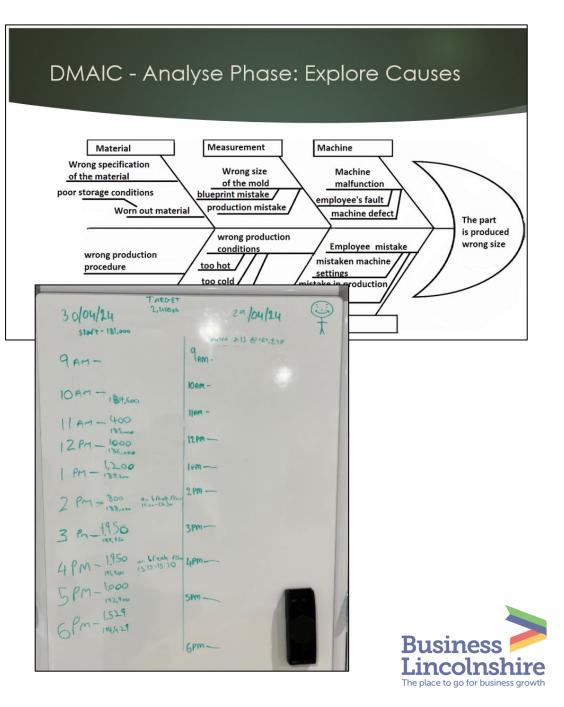
			ementation Das	libuaru		nput
CI.	CI.2	Section	Sub-section	Requirement	S	tatus
4	1	сото	Understand Context	Identify external and internal issues that affect the organisation and QMS. Monitor		0
4	2	сото	Understand needs	Clear understanding of needs and expectations of stakeholders inc. customers		0
4	3	сото	Determine scope	Scope of the QMS clearly defined. Include products and services, clarify what isn't (		0
4	4	сото	QMS and Processes	QMS is built in entirety		0
4	4	сото	QMS and Processes	Processes are documented with clear SIPOC diagrams in place		0
4	4	сото	QMS and Processes	Risks and Opportunities identified and addressed		0
4	4	сото	QMS and Processes	Resource in place for processes to deliver their intended outputs and results monit (		0
4	4	сото	QMS and Processes	Responsibilities and authorities are assigned		0
4	4	сото	QMS and Processes	Process operation is supported by documentation		0
5	1	Leadership	General	Senior Leaders take accountability for Quality		0
5	1	Leadership	General	Resources are made available to support the QMS		0
5	1	Leadership	General	The QMS delivers intended results and continual improvement of the QMS is prome		0
5	1	Leadership	Customer focus	The organisation is aware of and understand customer and statutory requirements (		0
5	1	Leadership	Customer focus	Understands risks and opportunities relating to customer satisfaction		0
5	1	Leadership	Customer focus	Emphasis on enhancing customer satisfaction		0
5	2	Leadership	Policy	Quality policy should be relevant to your org and objectives. Documented and avai		0
5	3	Leadership	Org. Roles, Resp, & Auth.	Responsibilities and levels of auth. relating to QMS are understood, performance is		0
6	1	Planning	Actions to address risks	Ref. 4.1 and 4.2 ensure QMS can prevent undesirable effects and support CI		0
6	2	Planning	Qual. Obj's & achievement	Have quality objectives in place relevant to function, measured, monitored, commu		0
6	3	Planning	Planning change	Change management is in place to control consequences		0
7	1	Support	Resources	Adequate resources planned and provided to support QMS - both internal and exter		0
7	1	Support	Resources	Workplace is fit for purpose, IT is suitable, processes suitable		0
7	1	Support	Measurement & traceabilit	t Calibration of tools and equipment is in place, workplace is fit for purpose, IT is su(		0
7	1	Support	Org. knowledge	The organisation has knowledge to achieve conformity and has good training to su		0
7	2	Support	Competence	Individuals are competent with records to show this		0
7	3	Support	Awareness	Individuals are aware of the QMS, policy and relevant objectives		0
7	4	Support	Communication	The organisation must determine what to communicate with regards to the QMS, wh		0
7	5	Support	Documented Info & Contro	The documents and control are place as required		0
8	1	Operations	Planning & control	Clear understanding of QMS is in place for all processes		0





# Case Study 3

- Manufacturing business which designs and manufactures specialist components
- The business is growing year on year
- Initially wanted to discuss grant funding for additional packing machines to increase capacity
- Spent time observing the process and looking for inefficiency: lack of production tracking & problem-solving
- Delivered workshop on problem-solving & helped implement short interval control





# Summary

- Experienced in majority of requirements within a manufacturing business
- Able to provide bespoke support in lots of different business areas
- There is so much more value to be had by improving business processes before you look at grant funding
- Any issues, opportunities, ideas, etc. just drop me an email / call and we can discuss best approach





# **Contact details**

#### **Trevor Durant**

**Manufacturing Adviser** 

**Business Lincolnshire Growth Hub** 

M: 0794 002 6762

E: trevor.durant@bizlincolnshire.com

Scan the QR code to try out the Manufacturing Diagnostics Tool:







Made Smarter East Midlands GLEAM Funding and Support for Innovation in Manufacturing

#### Get set for the future. Now

Dr Chris Owen Made Smarter East Midlands Programme Director



### Contents

- Programme details
- Eligibility
- Customer journey & programme elements
- Types of projects supported
- How to get involved

Made Smarter helps makers keep their competitive edge, with digital tools that help people make an everyday difference to their business.



...and now available in the East Midlands

### Key Programme Details

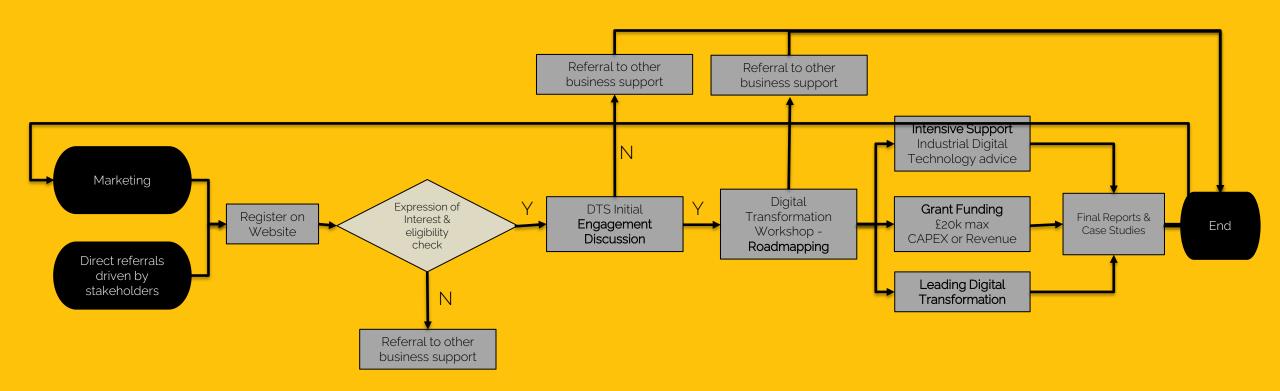
- £3m of HM Government Investment
- Programme launched 12<sup>th</sup> December 2022 First EOIs managed
- Programme closes 31<sup>st</sup> March 2025
- Over 400 engagements with Manufacturing SMEs across the East Midlands region
- Over 130 Manufacturers undertaking free Digital Transformation Road Mapping
- 80 Manufacturers to receive free intensive technical advice and expertise
- Over 50 grants available for CAPEX or Revenue Projects
- 36 Places available for the "Leading Digital Transformation Programme"

# Eligibility

#### • Must be a Micro, Small or Medium Enterprise

- Micro & Small
  - Headcount 1-49
  - Turnover or Balance Sheet < €10m
- Medium
  - Headcount 50–249
  - Turnover or Balance Sheet < €50m</li>
- Must be a **Manufacturer** A maker of a product
- For companies which have group structures please discuss with the Made Smarter East Midlands Programme Office
- Must be within Greater Lincolnshire, Leicestershire, Derbyshire and Nottinghamshire

### Customer Journey



### Made Smarter East Midlands – What's on offer

Digital road	Grants	Impartial tech	Leading Digital
mapping		expertise	Transformation
<ul> <li>3-5 year digital transformation plan for your business</li> <li>Specific to your challenges, issues and ambitions</li> <li>Digital Readiness Level (DRL) benchmarking – National</li> <li>Evaluation of options to solve your challenges</li> <li>Logical sequence of what to do when</li> <li>Identification of MS support we can offer to help get you on your journey</li> </ul>	<ul> <li>£20,000 max</li> <li>CAPEX or revenue projects</li> <li>1 per business</li> <li>50% minimum company match</li> <li>Claimed and paid in one single stage</li> </ul>	<ul> <li>4 days of impartial technical advice</li> <li>Additive Manufacturing (3D printing)</li> <li>AR &amp; VR</li> <li>Big Data &amp; Analytics</li> <li>Cognitive Computing &amp; AI (machine learning)</li> <li>Data &amp; Systems Integration</li> <li>Industrial Cyber Security</li> <li>Internet of Things</li> <li>Mobile Devices &amp; Wearables</li> <li>Robotics Process Control &amp; Automation</li> </ul>	<ul> <li>3 Month programme</li> <li>7 Bite-sized workshops</li> <li>Cohorts of 12 Manufacturing leaders – All leading digital transformation</li> <li>Must have completed Road Mapping &amp; Digital Readiness Level Assessment</li> </ul>

### **Innovation & Made Smarter East Midlands**

Examples of how digital technology is helping companies be innovative

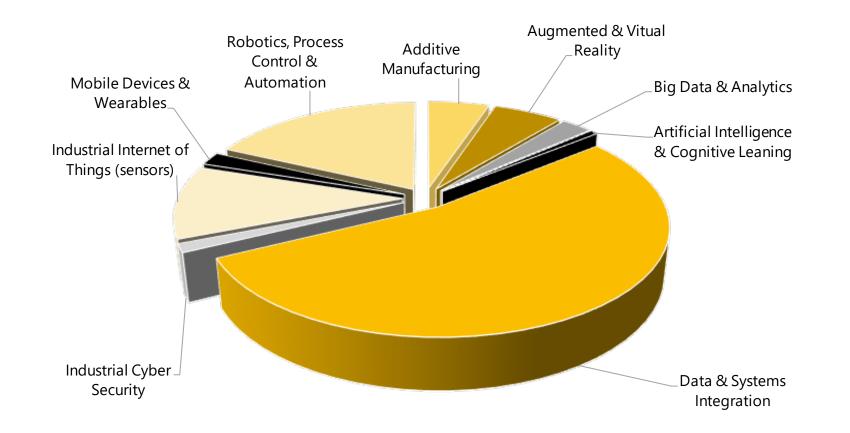
#### New to firm innovation

- In Process Verification (IPV) 100% visual inspection
- Implementing robots and cobots
- Integrating/implementing systems CRM, MRP, MES
- Implementing systems to automate workflow of internal processes
- Measuring and optimisation asset utilisation
- Measuring and reducing energy consumption
- Automating manufacturing operations CNC
- Product identification and traceability laser etching, bar coding

#### New to market innovation

- 3D Scanning of customer applications to design customer specific parts quickly
- Direct Laser Metal Sintering to create medical parts for near immediate fitment to the body.
- On-line customer configurators Make-to-Order including production scheduling & inventory management for immediate order placement & cash.
- Scan-Design-Print-Ship
- Manufacturing process changes to enable the use of new materials, enhancing competitive positioning

### Types of projects supported by Made Smarter

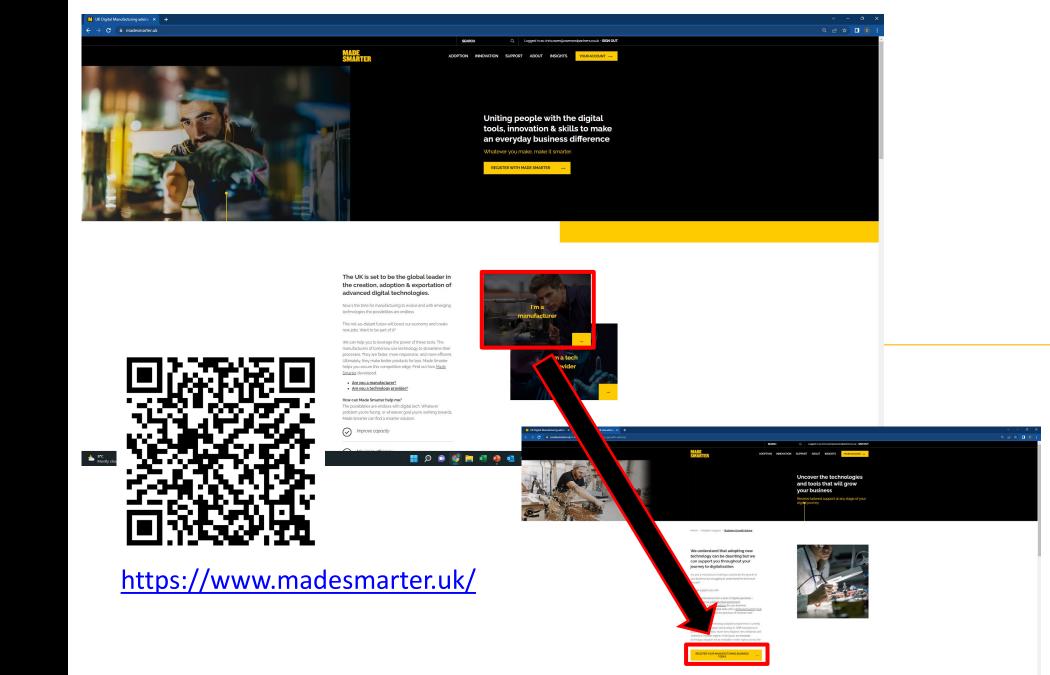


Become part of the Made Smarter Manufacturing Community today.

Sign up and get the support you need to digitally transform your business.

Get involved

How to make an expression of interest



With other food producers cutling reages to focus or volume, cutomers are looking for alternatives, which has created an opportunity for us. Orders from all uses of either and the server and an analysis of the server and more. There is no dealed that without investing wheneve did, in the way that when the server and the server and

#### Get involved

Connect with us



company/made-smarter-east-midlands

@MadeSmarterEM

https://www.facebook.com/MadeSmarterEM

- News
- Events e.g. Technology Transfer Workshops
- Case studies
- Advice
- Helpful links to all things digital





#### Get set for the future. **Now**

### **Q & A** Thank you for your attention

#### Join Made Smarter

Dr Chris Owen chris.owen@owenandpartners.co.uk Programme Director



### Support for Manufacturers from the Banking Sector

Garry Wilkinson, NatWest



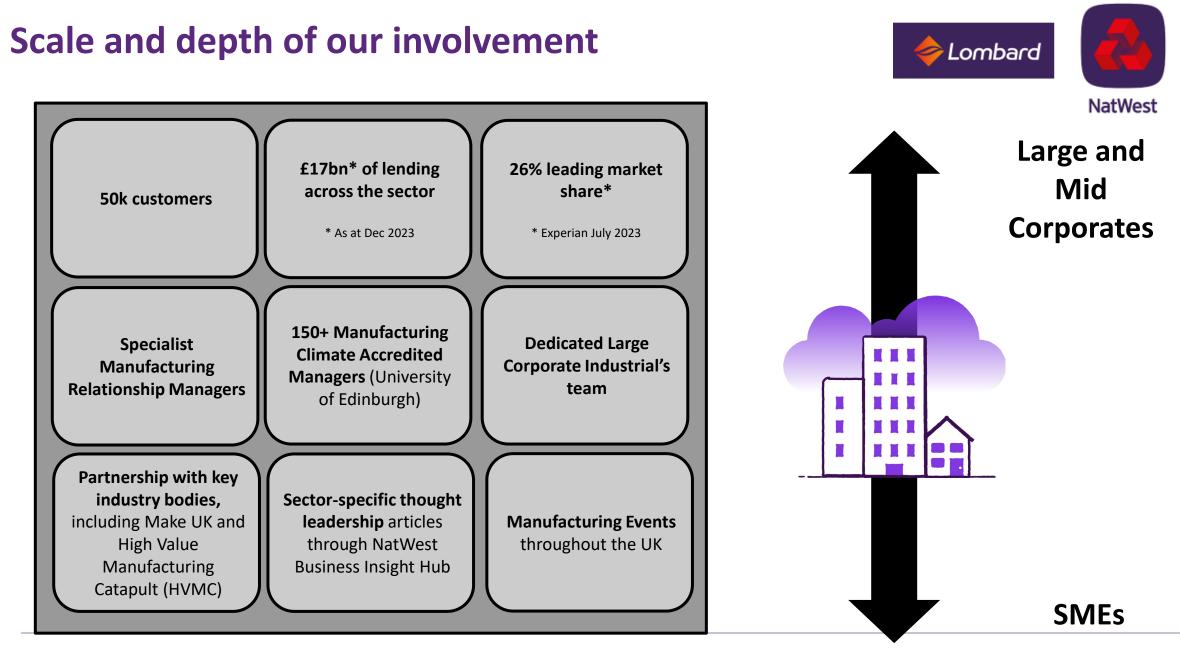
# Support for Manufacturers from the Banking Sector

Garry Wilkinson, Manufacturing Specialist - NatWest

6<sup>th</sup> June 2024







#### FINANCE: OPENING DOORS TO INVESTMENT IN MANUFACTURING

In partnership with

Lombard



NatWest

### **KEY FINDINGS**

IMPROVED ACCESS TO FINANCE COULD ADD AN ADDITIONAL 69,280 OF INVESTMENT OVER THE NEXT 12 MONTHS



THE MARKET FOR ASSET FINANCE HAS GROWN BY 7%

2<sup>ND</sup> BIGGEST



**ROBOTICS AND AUTOMATION** 



CLAIMERS OF

**R&D TAX** 

CREDITS



TO SUPPORT INVESTMENT IN



NEARLY DELIEVE THAT GOVERNMENT SHOULD FOCUS ON CLOSING THE INFORMATION GAP USING DIGITAL TECHNOLOGIES TO CENTRALISE SOURCES OF SUPPORT



40%





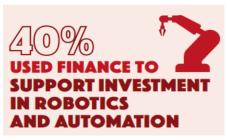


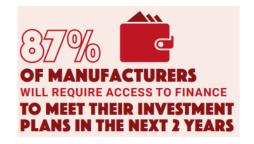


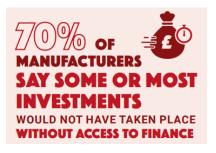
### **ACCESS TO FINANCE**

Limited access to finance (whether that limitation is real or perceived) is a challenge that has created obstacles to growth for many businesses for over a decade now, despite historically low interest rates. Over time, many businesses in the UK have built into their psyches an aversion to risk which places greater weight on the cost of finance, rather than the opportunities finance can create.



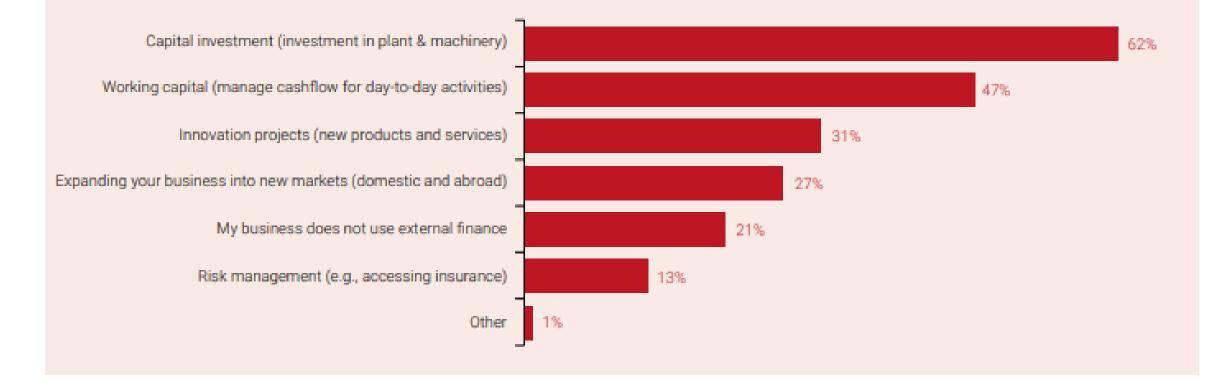


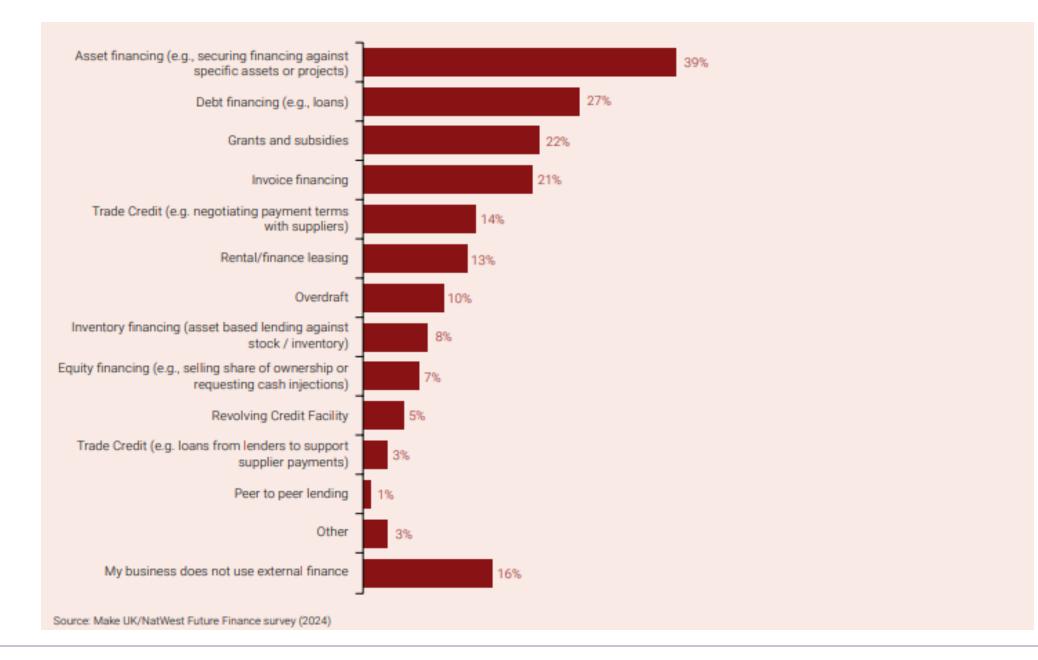




### Chart 1 and 2 – Manufacturers use finance to invest in capital, support day to day costs, increase innovation and access the most relevant forms of finance to meet these needs

% share of manufacturers citing what they access finance for, and what types of finance they use





### Helping you build a future fit business

#### Energy efficiency & sustainability

Helping customers to **reduce their energy costs** which in turn can help them to become more **sustainable**.

### Supply chain resiliency & boosting global trade

Helping customers to **mitigate** against **supply chain volatility** whilst boosting manufacturers opportunity to **grow globally** 

#### **Digitalisation & automation**

Helping customers to drive greater efficiencies, productivity and reductions of costs across their business. In addition to tackling the ongoing skills and labour challenge.



#### How

- £1bn in additional lending to UK Manufacturing to support the Net Zero transition by 2030
- Carbon Planner Tool
- Digital Energy Tools
- Sustainable Finance

#### How

- Working capital solutions to support management of stock and debtors
- Trade loan extensions (Red Sea issues)
- Growing Globally Manufacturing webinar (Feb 28th)



#### How

- Lombard Asset Finance unlocking investment
- Mentor supporting with training and H&S procedures
- Robotics and Automation Insights Series
- Round tables with MTC/HVMC
- AI/Digitalisation webinar (Q3)

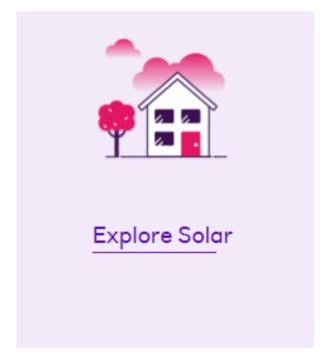
Energy help and support

### Worried about rising energy costs?

Actions that could help with reducing costs



### Energy Help & Support



 <u>Solar Panel Potential | NatWest (dcat.co.uk)</u> NatWest Carbon Planner

#### Could cutting your carbon, cut your costs?

#### How it works

#### Discover a more sustainable future with NatWest Carbon Planner

Reducing emissions for your business is challenging. With limited resources and multiple priorities, it can be hard to decide where to focus your efforts.

Carbon Planner is free and could support you to become a more sustainable and climate conscious organisation, and help you to identify potential cost and carbon savings too. Use it to measure your carbon footprint by answering a few questions, get tailored actions and start building a plan to reduce your emissions.

Sign up to Carbon Planner —



Give us a few details to help us work out your estimated carbon footprint. Set targets to build an action plan to reduce your emissions. We'll suggest where to focus your efforts for the biggest impact.

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Explore products and resources that could support you with actions which could reduce your carbon emissions, cut costs and help you to achieve your targets. Use the insight gained from the tool to share your climate journey within your organisation.







#### Who's it for?

**G** 

While any UK business could use the tool, you'll get the most from it if:

- · you're able to access it on a desktop computer
- you're interested in taking action to reduce your carbon emissions

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## Thank you

Manufacturing Insights



#### Finance for Manufacturing Report



Energy Help & Support





garry.wilkinson@natwest.com / 07789 946166

TOMORROW BEGINS TODAY

#### **Refreshments and Networking**

Back at 10.20



#### The Future of R&D Tax Relief

Julia Clarke, Wright Vigar

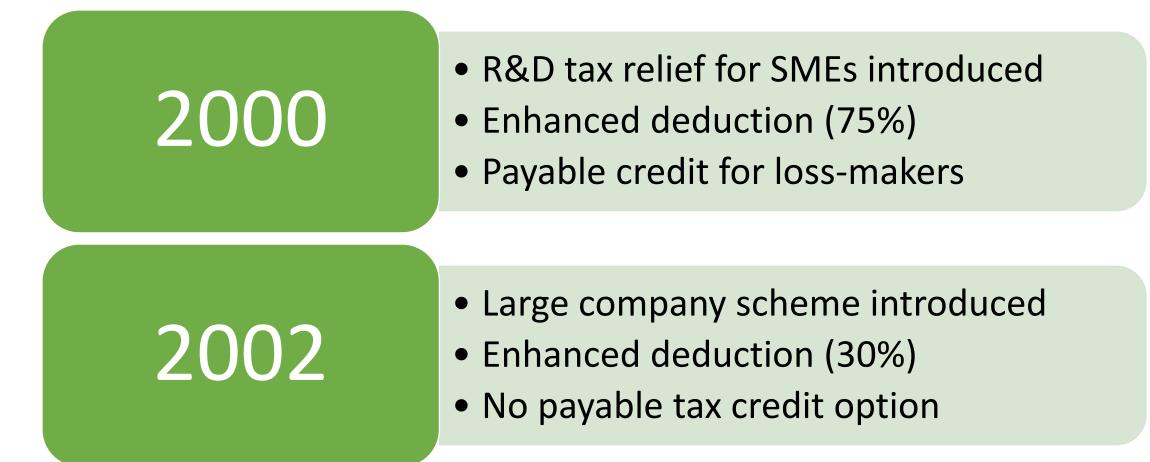


### The Future of R&D Tax Relief

The rules they are a-changin'

Wrigh

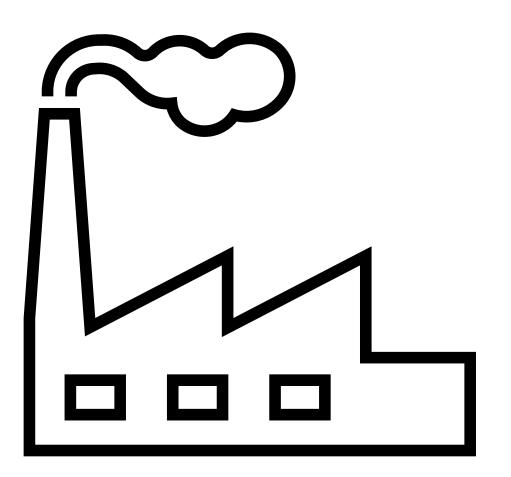
### A history lesson



### Introduction of RDEC

#### 2013

- RDEC "above the line credit" scheme introduced
- Large companies could use RDEC or large company scheme for three years
- 31/3/16 large company scheme abolished



### How RDEC works

- Multiply qualifying expenditure by the RDEC rate (20%)
- This is taxable income
- Credit can be deducted from tax liability
- Where company is loss making, credit can be surrendered for a repayable credit



April 2024 – New Merged Scheme

- APs beginning on or after 1/4/24
- SME scheme no longer available
- HMRC best features or both SME and RDEC schemes
- Works like RDEC

2023	2024
SME scheme	Merged RDEC scheme – all sizes of company
Knowledge Intensive SME scheme	Enhanced R&D intensive support
RDEC for large companies and SMEs who cannot claim under SME scheme	

### Comparing relief

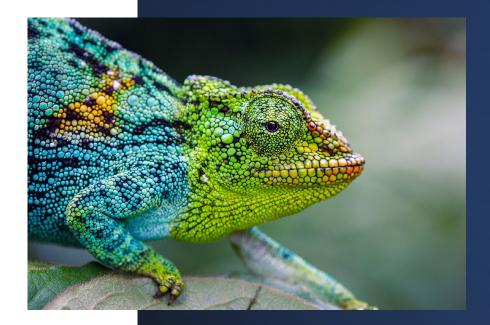
	SME from 1/4/2023	RDEC from 1/4/2023	Merged scheme APs starting on or after 1/4/24
Profitable company	16.34% - 21.5%	15% - 16.2%	15% - 16.2%
Loss making company	18.6%	15%	16.2%
R&D intensive	27%	-	27% SME only
Repayable credit cap	£20,000 plus 3 x PAYE and NIC	Expenditure on R&D workers' PAYE and NIC	£20,000 plus 3 x PAYE and NIC

### Qualifying expenditure

SME scheme	RDEC	Merged scheme
Staffing costs Salary, Class 1 NIC, pension contributions	Staffing costs	Staffing costs
Externally provided workers (65%)	Externally provided workers (65%)	UK externally provided workers (65%)
Consumable items	Consumable items	Consumable items
Software	Software	Software
Sub-contacted R&D (65%)	Only to qualifying bodies (e.g. Universities, charities) or individuals	UK Sub-contracted R&D (65%)
Subsidised expenditure not qualifying	Subsidised expenditure qualifying	Subsidised expenditure qualifying

### Changes from 1/4/2023

- SME scheme:
  - Profit makers 86% expenditure enhancement (was 130%)
  - Loss makers 86% uplift with 10% repayable credit on surrenderable losses (was 130% uplift and 14.5% credit)
- Knowledge intensive SMEs 86% uplift with 14.5% repayable credit on surrenderable losses
- RDEC scheme:
  - 20% tax credit giving 15%-16.2% benefit (was 13% tax credit giving 10.53% benefit)



### Knowledge intensive SME

- Announced at Spring budget 2023
- Applies to R&D expenditure from 1/4/23
- Company is knowledge intensive if:
  - R&D expenditure > 40% of total expenditure



### Expansion of relief – APs beginning on or after 1/4/2023

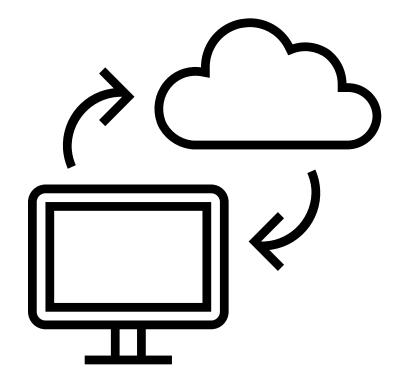
From 1/4/23 Definition of R&D specifies that mathematical advances are treated as science

Potential to claim for Datasets

- Licences to access and use digital data
- Not purchases of data as deemed to be capital expenditure

#### Potential to claim for Cloud computing

- Data storage
- Hardware facilities
- Operating systems
- Software platforms
- Only to the extent used in qualifying R&D



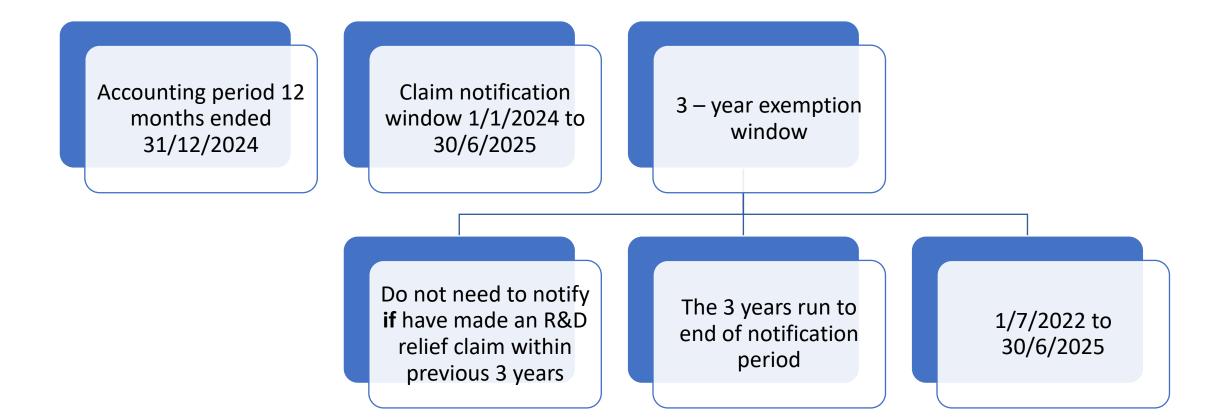
### Administrative changes 1/4/23

### Online advance notification of claim

Made by a representative of the company or an agent At any time from start of AP to 6 months after end of AP

Exemption from notifying if have made claim in 3year window

### Example



### Additional information form

### Claims filed from 8/8/2023

### Must be filed before CT600 claiming relief

For long period of account will need two

Filed by company representative or agent

## Additional information form requirements

	Senior officer responsible for claim – name and contact details	
	Any agent who has assisted with the claim – name and contact details	
	Amount of qualifying expenditure by category	
[	Number of projects to which this relates	
	Number of projects detailed	
	<ul> <li>1 -3 projects – describe all</li> <li>4 or more projects – describe lower of:</li> <li>10 projects and</li> <li>Projects accounting for at least 50% of qualifying expenditure</li> </ul>	

### Project description questions

What is the main field of science or technology

What was the baseline level of science or technology that the company planned to advance

What advance in scientific or technological knowledge did the company aim to achieve

What scientific or technological uncertainties the company faced

How did your company seek to overcome these uncertainties

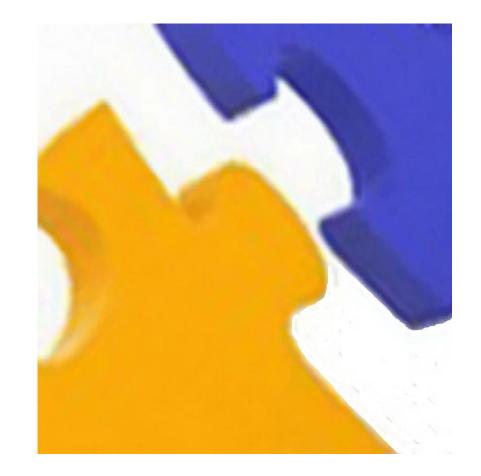
Amount of qualifying expenditure applying to each project



### The merged scheme

# Merged Scheme - features

- RDEC above the line credit
- Rate is 20%
- Can claim sub-contracted expenditure
- Subsidised expenditure
- Overseas expenditure restricted
- Cap on tax credit reclaims follows more generous SME scheme



# Subcontracted expenditure

#### Previously

- SME's could claim under RDEC for R&D that had been subcontracted to them
- The large company would not have been able to make any claim

#### Under new merged scheme

- Only the company doing the sub-contracting can make a claim
- That company needs to be able to show that they intended or contemplated that R&D would be necessary to fulfill the contract



## Sub-contracted R&D Deciding factors

- Intellectual property ownership
- Financial risk in undertaking the work
- Autonomy in undertaking the project
- Decision making process



# Subsidised expenditure

- Previously SMEs could only claim subsidised expenditure under the RDEC scheme
- Any SME project that received state aid was disqualified from receiving any R&D relief
- Under new scheme no restrictions



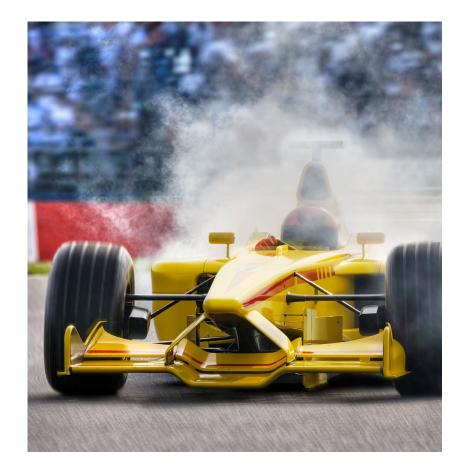
## Restriction on work carried out overseas

- Accounting periods beginning on or after 1/4/2024
- Payments for sub-contracted R&D must either be:
  - For work carried out in the UK **OR**
  - Work carried out outside the UK where the following circumstances apply:
    - Conditions necessary for the R&D are not available in the UK
    - Those conditions are present in the location where the R&D is undertaken
    - It would be wholly unreasonable for the company to replicate the conditions in the UK



# Overseas restriction - externally provided workers

- Earnings of externally provided worker must be subject to PAYE and NIC
  - Either by the company or
  - By the staff provider
- The same limited exceptions apply for EPWs carrying out work overseas:
  - Conditions necessary for the R&D are not available in the UK
  - Those conditions are present in the location where the R&D is undertaken
  - It would be wholly unreasonable for the company to replicate the conditions in the UK





# Conditions that will not make overseas R&D qualify

• Cost of the R&D activity

• Availability of workers

## Cap on tax credit claims

- Repayable credit is first calculated on surrenderable losses
- But limited to:
  - £20,000 plus
  - 300% of PAYE and NIC

Under merged scheme

 Excess over the cap is carried forward and treated as RDEC due for next period

Under enhanced R&D intensive support

• Any claim for tax credit in excess of cap is invalid



# Exemption from tax credit cap

Need to meet two conditions – A and B

Α

- Company is creating or preparing to create relevant IP
- The activities are carried out wholly or mainly by employees

В

 Sum of qualifying expenditure on related subcontract and related EPWs is less than 15% of qualifying R&D spend for the period



## Introducing ERIS



- Enhanced R&D Intensive Support
- Accounting periods beginning on or after 1/4/24
- Need to be an SME
- Need to be loss making before the additional deduction
- Meet the intensity condition

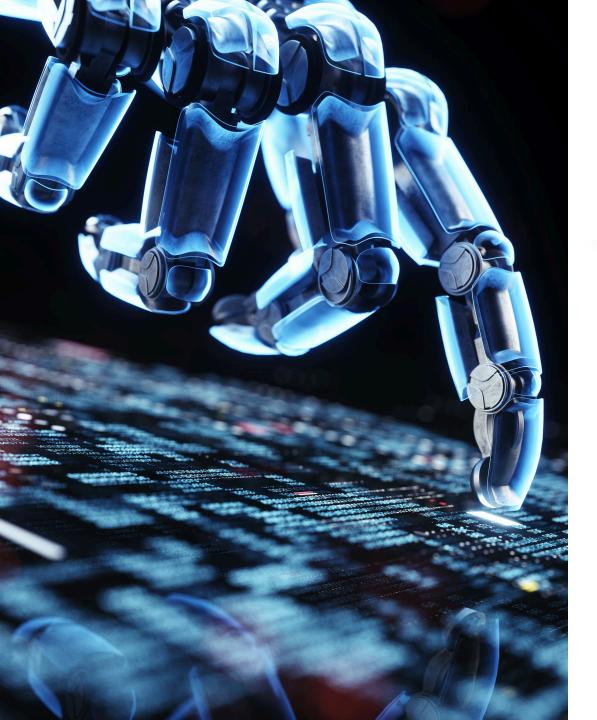
## Definition of an SME

## Less than 500 employees

### And either:

Annual turnover < €100 million or

Balance sheet total < €86 million



## Intensity condition

- Relevant R&D expenditure at least 30% of total relevant expenditure (was 40%)
- Include connected companies worldwide
- Relevant R&D expenditure is expenditure on which R&D relief **could** be claimed
- Total relevant expenditure is expenditure brought into account under GAAP for the period
- P&L expenditure excluding disallowable amortisation of an intangible asset and recharges from connected companies

## Relief under ERIS

- Enhanced deduction 86% of qualifying costs deducted in tax calculation
- Loss-making SMEs can claim payable tax credit of 14.5% of surrendered loss
- Need to be loss-making before enhanced deduction





# How to approach making a claim

- Establish that the company has undertaken an R&D project
- Consider whether you need to submit a claim notification form and the deadline
- Consider what scheme can you claim under
  - Accounting periods beginning before 1/4/24
    - SME scheme
    - SME knowledge intensive from 1/4/2023
    - RDEC
  - Accounting periods beginning on or after 1/4/24
    - Merged RDEC
    - SME knowledge intensive

#### Good Luck!

Let us know if we can help

Any questions?

Julia.Clarke@wrightvigar.co.uk



#### National Grant Funding for Manufacturing

Stephen Morris, Innovate UK Business Connect



# Innovate UK Business Connect: Connecting for Positive Change

Dr Stephen Morris Knowledge Transfer Manager – Smart Materials and Technical Textiles stephen.morris@iuk.ktn-uk.org



Innovate UK

## **UK Research and Innovation**

We work with the government to invest over £7 billion a year in research and innovation by partnering with academia and industry to make the impossible, possible.

Through the UK's nine leading academic and industrial funding councils, we create **knowledge with impact**.

- 7 Research Councils
- 1 Research England
- 1 Innovate UK





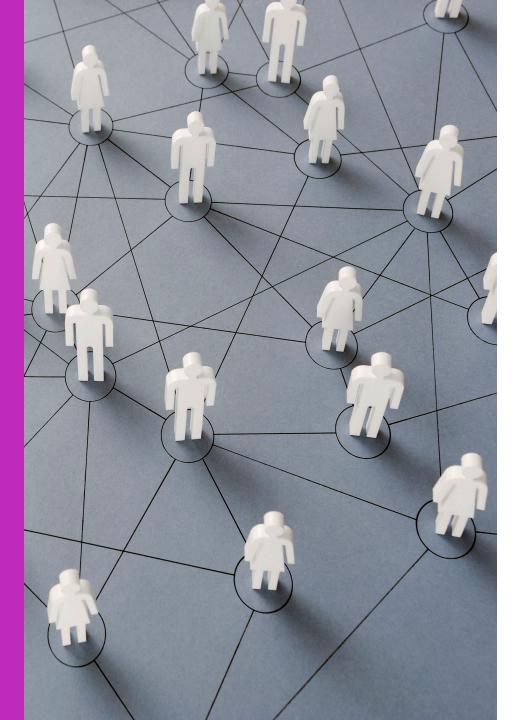
## Innovate UK

- The UK's innovation agency.
- Support business-led innovation in all sectors, technologies and UK regions.
- Help UK businesses grow through continuous development and commercialisation of products, processes and services.

## We Inspire | We Involve | We Invest









Business Connect



Innovate UK Business Connect is the new name for Innovate UK KTN. We exist to connect innovators with new partners and new opportunities beyond their existing thinking – accelerating ambitious ideas into real-world solutions.

#### **Cross-Sector Expertise Includes:**

- Agrifood
- Biotechnology
- Chemistry
- Creative Industries
- Computing
- Design
- Digital
- Electronics

- Energy
- Geospatial
- Health
- Industrial Maths
- Infrastructure
- Manufacturing
- Materials
- Photonics

- Quantum
- Robotics & Al
- Security & Defence
- Sensors
- Space
- Transport
- Water
- (Net) Zero



#### **Innovate UK Business Connect and you**

- Signpost companies to identify and address funding
- Provide deep expertise to make Connections & Networks
- Drive powerful connections with businesses
- Assist companies in forming partnerships/collaborations/projects
- Advise companies in their submission
- Light touch reviews
- Guidance documents, e.g. Good Application Guide
- Highlight key features of a good proposal
- Provide recommendations, e.g. proposals that excites and inspires
- Invite you to collaboration mechanisms & events



### UK Materials and Manufacturing Vision 2050 Now is the time to reimagine materials and manufacturing





Learn more about this significant report here www.ukri.org/reimagine-manufacturing

## **Reimagining Materials and Manufacturing**

#### Sustainable bio-based Materials and Manufacturing (SusBioMM)

The sustainable bio-based materials and manufacture programme seeks to address the challenge of developing innovations in sustainable and scalable biomanufacturing processes.

#### **Resource Efficiency for Materials and Manufacturing (REforMM)**

The programme aims for the UK to be a leader in resource efficiency with organisations understanding the environmental, social and economic impact of the full lifecycle and thriving from adoption of resource efficient solutions which are fundamental to UK and global Net Zero ambitions.





# **Resource Efficiency for Materials and Manufacturing Sprints (REforMM)**





#### Materials for the future economy

New material applications for cutting-edge products that reduce emissions, energy consumption and costs



Smart design Effective design methods, design for resource efficiency, and design for maximum through-life value



**Resilient supply chains** 

Sustainable feedstocks, supply chain visibility, and co-location of waste and emission streams





World-class production Flexible production capacity, minimal material waste, high-quality products, high productivity, and full adaptivity

#### Longer in use and reuse

Minimising materials use and waste, practising complete traceability, and using new remanufacturing services



Programme link

# Sustainable Bio-based Materials and Manufacture Programme





**Bio-based** 

feedstocks

Increasing the use

of bio-based

feedstocks





Developing alternative biobased chemical replacements



Enhancing sustainability profile of biotechnology processes



**Feedstock** 

recycling

Innovative use and

re-use of renewable

feedstocks



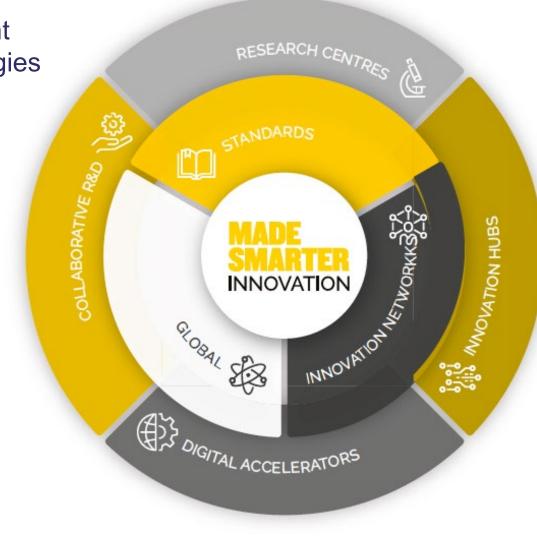
Biomanufacturing Biotechnology based manufacturing processes for sustainable and circular products



Programme link

# Made Smarter Innovation

- £300m cross-council challenge for the development and novel application of Industrial Digital Technologies to deliver:
  - Up to 30% productivity improvement
  - £2.3bn Gross Value Add
  - Up to 4,000 jobs
  - 4.5% reduction in CO<sub>2</sub> (eq)
  - 25% reduction in waste





# Made Smarter Innovation

#### Global

- Taiwan programme launched
- Work ongoing to globalise strands of programme



#### £60m Collaborative R&D 4 rounds of investment

- Fast Start (£20M)
- Digital Supply Chain (£20M)

Innovate

UK

- Sustainable Smart Factory
- Robotics & Automation

#### £30m Innovation Hubs

- Digital Supply Chain Hub lead by Digital Catapult
- Smart Manufacturing Data Hub SME focused



#### £30M Research Programme

- 5 Multidisciplinary centres launched –looking at digital innovations
- Over 100 Industrial collaborators
- Interact–ESRC lead programme looking at human insights

#### **Digital Accelerators**

- Tech Start-up/SME focussed
- First Made Smarter Technology Accelerator programme completed
- Second Sustainability in Manufacturing Accelerator starting



# **Driving the Electric Revolution**

- UKRI's Driving the Electric Revolution Challenge (DER), delivered by Innovate UK, represents an investment of up to £80 million over 5 years for business-led innovation projects that enable UK supply chain and manufacturing capability growth in Power Electronics, Machines & Drives (PEMD).
- Driving the Electric Revolution is enabling electrification across multiple sectors. It aims to ensure the UK leads the world in the design, development and manufacturing of Power Electronics, Machines and Drives across multiple sectors with projects that will facilitate future improvements in supply chain capability, productivity, capacity, quality, & efficiency, support the UK's continued push towards net-zero carbon, and catalyse the green economic recovery in transport, energy & industrial sectors.

For more information, contact: Sven.Knowles@iuk.ktn-uk.org



## **Analysis for Innovators**

- Innovate UK Analysis for Innovators programme is in its 8th year, having funded 13 Rounds. The programme helps solve companies challenges with existing products, services or processes, matching them with one (or more) of nine leading measurement organisations such as TUV SUD National Engineering Laboratory, the Science Technology Facilities Council and the National Gears Metrology Lab.
- Companies apply with a Challenge and Innovate UK Business Connect helps them meet the partners best suited to solve the challenge. Once the right solution provider is identified there is then the opportunity to apply for grant funding and SME's often get the chance to apply for 100% funding for short projects.
- The programme has delivered over £650M in value to more than 260 companies completing over 450 projects so far.

For more information, contact: A4I@iuk.ktn-uk.org



#### Innovate UK Business Connect Innovation Exchange (iX) Background

- The iX programme introduces organisations with pressing challenges which cannot be solved by available products or services, to innovators across all sectors who are working on solutions.
- Consulting with the lead organisation at every stage, Innovate UK Business Connect will define the innovation challenge, publish and promote the opportunity across our vast networks, evaluate the responses according to published criteria, host a pitch day of selected responders, and support the lead organisation to partner with any chosen companies.
- iX has proven highly successful in energy, defence, health and transport and is now being expanded into other sectors, such as infrastructure, security and agri-tech
- As a result of 107 iX challenges, there has been:
  - Over 2,500 application entries
  - 480 UK companies invited to pitch days
  - 102 trials undertaken, generating £17.2m value to challenge holders
  - 30 commercial contracts, valued at £2.3m





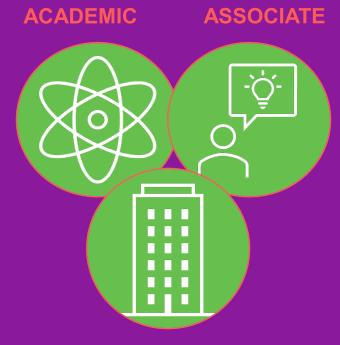
### Introducing Knowledge Transfer Partnerships (KTP)

#### **KTP is:**

A three-way partnership that provides:

- expertise to innovate
- funding to enable
- resource to deliver transformational positive change

As a scheme we have been around since 1975

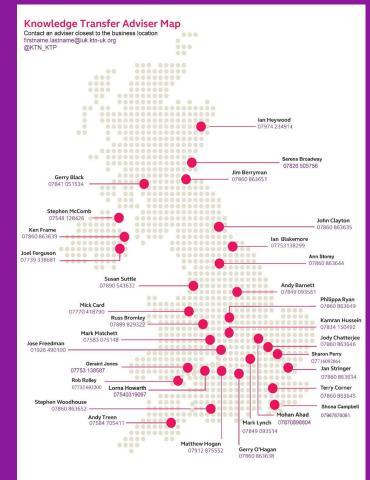


**BUSINESS** 

### Knowledge Transfer Adviser (KTA) Support

- Locally based Support and Advice throughout the project lifecycle
- Mentoring for KTP Associate
- Support and monitor the project
- Interface with other Innovate UK Business Connect resources/networks/sector specialists
- Support more than 100 KBs active or interested in participating in KTPs







## **Events**

#### **Made Smarter Innovation Showcase**

5 – 6 June 2024 <u>Smart Factory Expo</u> NEC, Birmingham **Q** 

Over the past four years, the Made Smarter Innovation Challenge has dedicated over £120 million in funding into more than 60 ground-breaking projects. This investment has generated an additional £130 million+ from industry partners, fostering a collaborative ecosystem of innovation.

The Made Smarter Innovation Showcase at Smart Factory Expo this year will be a testament to these achievements Join us at the forefront of manufacturing and meet the innovators!



### **Events**

#### **AI Summit**

12 – 13 June 2024 Tobacco Dock, London **Q** 

The AI Summit London brings together the most forward-thinking technologists and business professionals in the UK, Europe, and beyond to explore the real-world applications of AI.

*Opportunities for AI in Manufacturing: Smart sustainable factories and supply chains* 14:50 Day 1

#### Find out more:

<u>Link</u>





#### **Innovate UK Business Connect:**

Events - Innovate UK Business Connect (ktn-uk.org)



Innovate UK Business Connect

newsletter



Made Smarter Innovation newsletter



Innovate UK

### **Further funding opportunities**

Innovate UK:

Innovation competitions - Innovation Funding Service (apply-forinnovation-funding.service.gov.uk)

**The Innovation Hub** 

Home | the innovation hub (ukri.org)





### **Horizon Europe**

Anshumaan Krishnan Ayyangar Horizon Europe UK National Contact Point for Industry (Cluster 4) Anshumaan.Ayyangar@IUK.UKRI.org

Louise Mothersole Horizon Europe UK National Contact Point for Mobility (Cluster 5) Louise.Mothersole@IUK.UKRI.org





THE NEXT EU RESEARCH & INNOVATION PROGRAMME (2021 – 2027)



### **The Framework Programme**

#### **€95.5bn** funding agreed for **2021-2027**



#### WIDENING PARTICIPATION AND STRENGTHENING THE EUROPEAN RESEARCH AREA

Widening participation and spreading excellence

Reforming and Enhancing the European R&I system



Innovate UK

Budget figures exclude UK and other Associate Country contributions

### **UK National Contact Points (NCPs)**

Team of national advisors, appointed by the Government to support UK organisations to successfully participate in Horizon Europe by:

- Raising Awareness of the programme
- Helping you find the right Topic
- Identifying the best ways to find partners
- Navigating the EU funding & tender opportunities portal
- Developing the proposal
- Answering any other Horizon Europe related questions



#### https://www.gov.uk/business-finance-support/horizon-europe-funding





## **Thank You**

For more information, please get in contact:

Dr Stephen Morris stephen.morris@iuk.ktn-uk.org

Made Smarter Innovation Network

**Reimagining Materials & Manufacturing** 



@InnovateUK

Innovate UK





#### Regional Support for Innovative Manufacturing

Ian Evley, Innovate UK Business Growth





### Innovate UK Business Growth Support to help businesses grow and scale

The Bridge, University of Lincoln : 06.06.2024





### Support for Innovative Manufacturing

### Ian Evley Innovation and Growth Specialist







Vision: UK to be a global hub for innovation by 2035.

**Business** 

#### Built on five strategic themes:

Future Economy

Innovate

- Growth at Scale
- Global Opportunities
- Innovation Ecosystem
- Government Levers



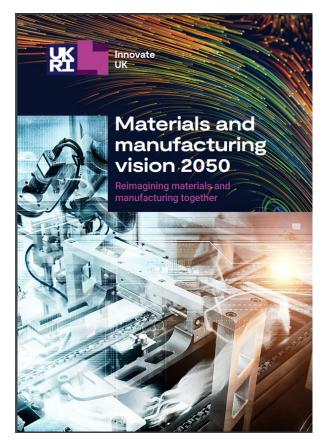
**INSPIRE** innovative businesses to create value though innovation

We work to:

**INVOLVE** talented organisations and people to create a vibrant and successful innovation ecosystem

INVEST in innovation to make a clearly tangible positive impact on the UK's economy and society

### Vision 2050





#### Focus areas

The **core** areas are:

- materials for the future economy
- smart design
- resilient supply chains
- world class production
- longer in use and reuse

#### The **enabling** areas are:

- clean energy
- proactive regulations and policy
- future skills
- networked relations
- evolving value models



The UK can develop worldleading and innovative sectors, and become an increasingly attractive place to manufacture goods

Materials and manufacturing accounts for 61% of all business expenditure on UK R&D and in 2019 attracted 22% of all inward foreign direct investment in the UK economy

### Materials and manufacturing vision 2050

The UK has clear potential to become a world-class destination of choice for advanced low-carbon manufacturing.

#### The 3 strategic imperatives will be:

- net zero and resource efficient
- resilient and responsive
- technologically advanced and digital

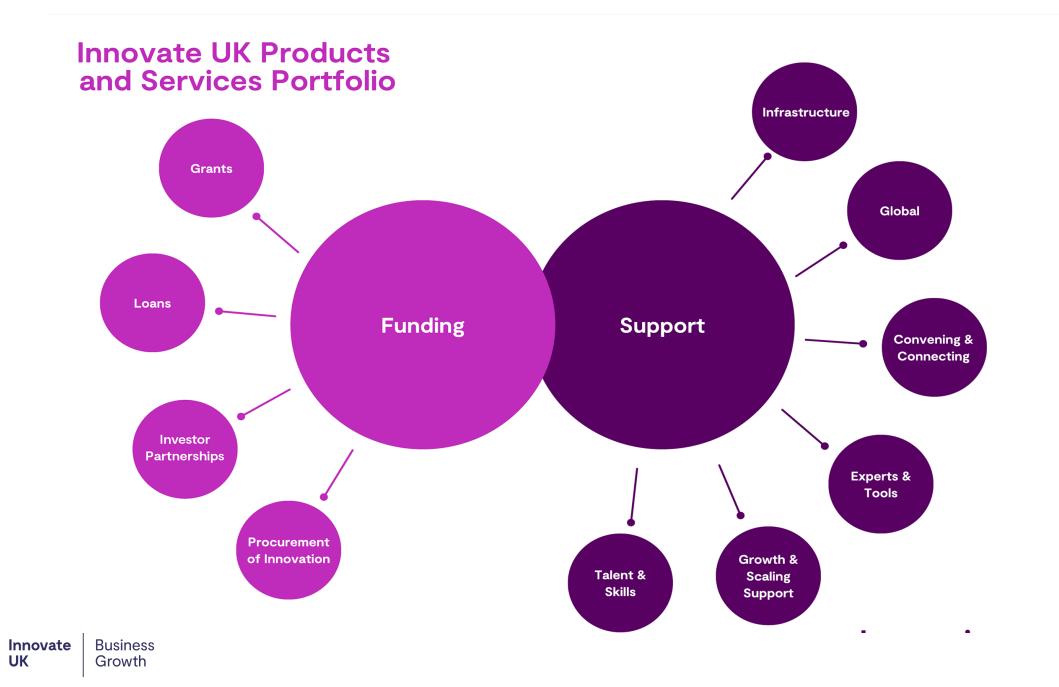
#### Key messages

UK manufacturing faces urgent challenges such as climate, resilience and productivity UK manufacturing offers incredibly exciting opportunities and is a great career option

UK has the talent and innovation infrastructure to realise its vision of being world-class

UK materials and manufacturing will be mission critical for our economy and society. Share your thoughts and get involved. Visit us at: www.ukri.org/reimagine-manufacturing







### Innovate UK Business Growth

Innovate UK's publicly-funded business support service.

**1-2-1 tailored wrap around support.** Available to ambitious, high potential small to medium sized innovationdriven companies, including Innovate UK grant winners.





### **Our target clients**

- Innovation-focused SMEs <250 employees
- Established and UK registered
- Growing or with Growth Potential
- From seed to scaling stage (50% CAGR)
- Management committed to business growth





Inspire. Involve. Invest.



### **Innovate UK Business Growth**

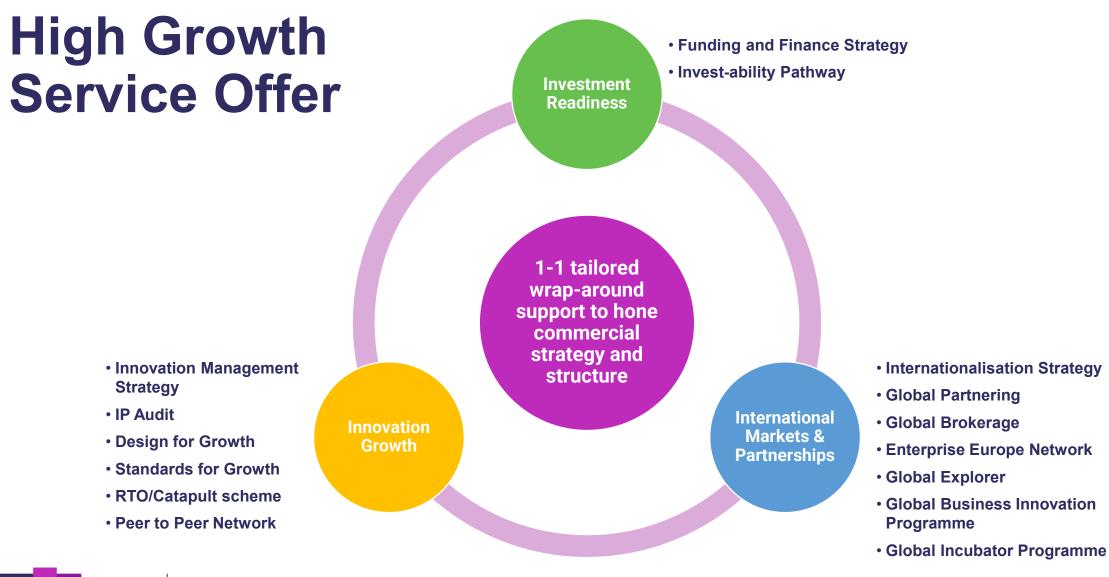
Tailored support that grows and scales ambitious innovation-focused businesses

**400 innovation and growth specialists embedded in all UK regional ecosystems.** We intervene at early, growth and scaling stages, with our core advisory service and enhanced Scaleup Programme, taking targeted action for:

Honing commercial strategy & structure Innovation management, inc. IP & infrastructure access

Finance & funding strategy, inc. investment readiness

Expanding into international markets, inc. via EEN



Innovate Business Growth

### **Innovation by Design**

Context for this Strategy Three lenses People for innovation Desirability Great design means putting the needs, wishes and behaviours of Great people at the heart of the innovation innovation process so that new ideas are truly outcomes desirable as well as being technically feasible and financially viable. Technology Feasibility What do people desire? Feasibility What is technically feasible? Viability What is financially viable?

W ......

**Business** 

Growth

Innovate

UK

#### Design in innovation strategy 2020-2024

#### A Framework for innovation: the Double-Diamond



The two diamonds represent a process for exploring an issue more widely or deeply (divergent thinking) and then taking focused action (convergent thinking).

### Navigating the System: Innovation Hub

# the innovation hub.





Business Growth

https://ukinnovationhub.ukri.org



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Menu 🚞

Q







Innovate

All public funding and support for innovation in one place, summarised and easy to find, to save you time and effort.



### **THANK YOU**

### Ian Evley Innovation and Growth Specialist

ian.evley@innovateukedge.ukri.org 07741 658528



e Business Growth

Wrap Up & Tour





#### Save the Date!

GLEAM next event is on <u>10 July 2024</u> at the Hub at the Food Enterprise Zone, Holbeach on "<u>New Technologies for Food Manufacturing - From Farm to Fork</u>".

The topic will cover new technologies (robotics, AI, machine learning etc...) and digital manufacturing for food manufacturing and should encompass the full value chain from farm to fork, with scope to include cross over technologies and best practice demonstrations to/from other industry sectors.



# BRIDGE

**Tour of the Bridge**