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**Knowledge Transfer Network**

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



# The Innovate UK Family



## Innovate UK



**Innovate UK**  
Knowledge Transfer Network

**CATAPULT**



# Innovate UK

## Knowledge Transfer Network

KTN are the UK's innovation network. We stimulate innovation by:

- *Linking organisations & exchanging knowledge*
  - *Providing access to support*
  - *Promoting exemplars*
  - *Informing national priorities*
- 125 staff
  - UK-wide
  - 60,000 members
  - Free to join





“I was impressed by the connections across powerful communities which KTN staff have helped build.

This was clearly the result of people **knowing what was needed and bringing the right players together**”

Christine Tacon, Chair of the Food and Drink Engineering Forum



Chemistry &  
Biotechnology

Food

Life Sciences

Materials

Infrastructure

Transport

Enabling Tech

Complex  
Systems

Emerging Tech

Digital &  
Creative



Manufacturing

Access to Finance

European Programmes

Design

Sustainability

Chemistry &  
Biotechnology

Food

Life Sciences

Materials

Infrastructure

Transport

Enabling Tech

Complex  
Systems

Emerging Tech

Digital &  
Creative

# 4Manufacturing



## Bringing the revolution to UK SMEs

- Small & medium sized manufacturers are critical:
  - Make up half of UK manufacturing
  - Fundamental to most supply chains
- Particular barriers to adoption
  - What is it?
  - Knowing where to start
  - Resources
  - What support is out there?

- One-to-one support
- 100 SMEs & counting...

# 4Manufacturing

Connecting the innovation landscape for the benefit of UK business

- A few of the organisations we're working with:



Department for  
Business, Energy  
& Industrial Strategy

Institution of  
**MECHANICAL  
ENGINEERS**

**GAMBICA**

Innovate UK

**THE Manufacturer**



**CATAPULT**

**IET** The Institution of  
Engineering and Technology

**AUTODESK.**

**Innovate UK**  
Knowledge Transfer Network

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



# How does 4Manufacturing work?



1. Understand your needs; identify opportunities
2. Define and follow a focused and balanced plan of action
3. Make targeted links to partners, solution providers and support
4. Deliver tangible benefits for your business

# 4Manufacturing

## Our framework

22 themes with 5 attainment levels

- Starts the first dialogue
- Establishes starting point
- Illustrates the potential
- Informs plan of action
- Enables tracking of progress

*“The process enabled the business to take stock and evaluate what we do and more importantly what we can do”*

Manufacturing SME

Business integration	<ul style="list-style-type: none"><li>— Factory floor and production systems</li><li>— Additive manufacturing</li><li>— Industrial Internet of Things</li><li>— Sensors</li><li>— Systems integration</li><li>— Digitally assisted assembly</li><li>— Robotics &amp; automation</li><li>— Simulation</li><li>— Cyber security</li><li>— Flexible manufacturing</li><li>— 3D visualisation</li><li>— Digital processes</li><li>— Predictive maintenance</li><li>— Energy &amp; water efficiency</li></ul>
Supply chain integration	<ul style="list-style-type: none"><li>— Supply chain integration &amp; mapping</li><li>— Circular economy &amp; remanufacturing</li></ul>
Customer integration	<ul style="list-style-type: none"><li>— Servitisation</li><li>— Web-based customer order tracking</li><li>— Mass customisation</li></ul>
Product innovation	<ul style="list-style-type: none"><li>— Innovation best practice/readiness</li><li>— Development of a new product</li><li>— Improvement of an existing product</li></ul>



AMRC Factory 2050,  
Sheffield, Feb 2017

See our website for  
more events:  
[www.ktn-uk.org](http://www.ktn-uk.org)

4Manufacturing

# Barriers

...and how we're tackling them...

- “What is it/where can I see it?”
- “Where do we start?”
- Lack of definitions, standards, glossary
- “What support is there eg. from government?”

## 4Manufacturing

# 4Manufacturing

## Some key observations so far

1. Engaging SMEs is critical
2. One-to-one support is important
  - We've developed a framework that works
  - Helping link to Catapults, academia, other solution providers etc.
  - ...and support to help make such collaborations happen
3. Many solution providers are SMEs themselves

# KTN network for immersive tech

**New cross-sector network on augmented & virtual reality**

- Helping make connections, facilitate collaboration & tap into new areas for growth.
- For businesses & research organisations



# Thank you

## KTN - The UK's innovation network

- Linking innovators to knowledge and partners
- Providing access to support
- Influencing national strategy

### Get in touch!

Ben Peace - Knowledge Transfer Manager, Sustainable Manufacture

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