

# Supply chains made smarter, together.

Get set for the future. **Now**

**MADE  
SMARTER**  
INNOVATION

DIGITAL SUPPLY  
CHAIN HUB



# Reasons for a Digital Supply Chain Hub (DSCCH)

## Supply chains are critical...

- Supply Chains cover nearly every Industry from Life Sciences through Automotive to Energy and Utilities
- Manufacturing supply chains have globalised over last 20 years
- Supply chains typically account for:
  - 50-70% of a manufacturing businesses costs
  - 80-97% of a businesses CO2 emissions (scope 3)
  - 5 to 1 ratio of employment
- Over 50% of manufacturers are looking to move some or all of their supply locally
- Over £15bn spent on supply chain software with market expected to double by 2027

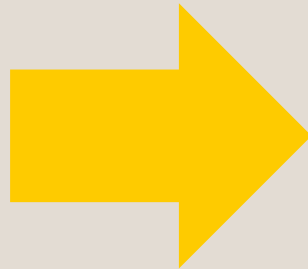


# Our mission

**To develop and empower a globally competitive, digital innovation ecosystem, working together to address and prepare for the critical supply chain challenges facing UK manufacturing.**

## **Digitally empowered**

- New digital skills
- New digital technology solutions
- New data and insight
- Better real-time decision making



## **Impact**

- Reduced environmental impact
- Increased productivity
- Increased economic resilience

# Part of, and inspired by, the Made Smarter movement

Our **vision** is to transform UK manufacturing through digitally empowered supply chains that are more **efficient, resilient and sustainable**.





# Supply chains made smarter, together

Transforming UK manufacturing through digitally empowered supply chains that are more efficient, resilient and sustainable.



Seamless and sustainable global trade



Reduced environmental impact



More resilient economies



Globally competitive UK manufacturing



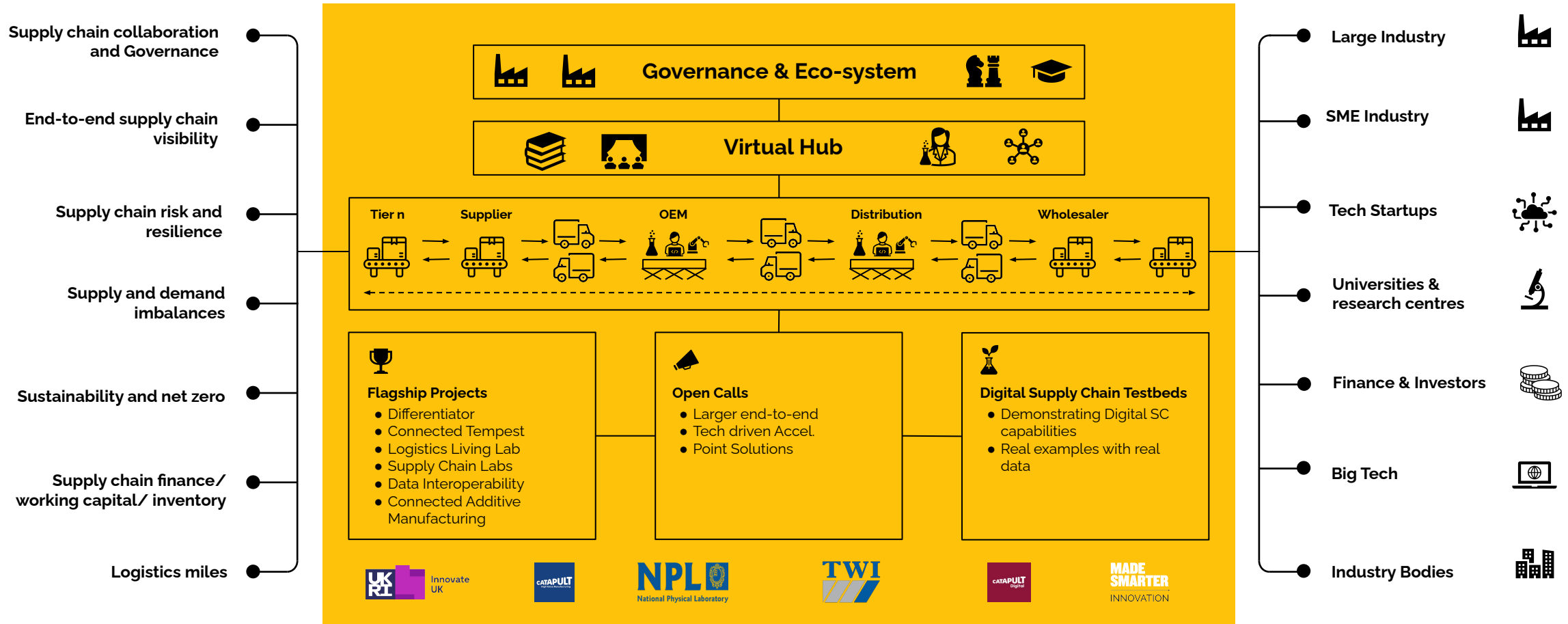
Digitally empowered UK businesses



Continuous product and service innovation

# Made Smarter Innovation: Digital Supply Chain Hub

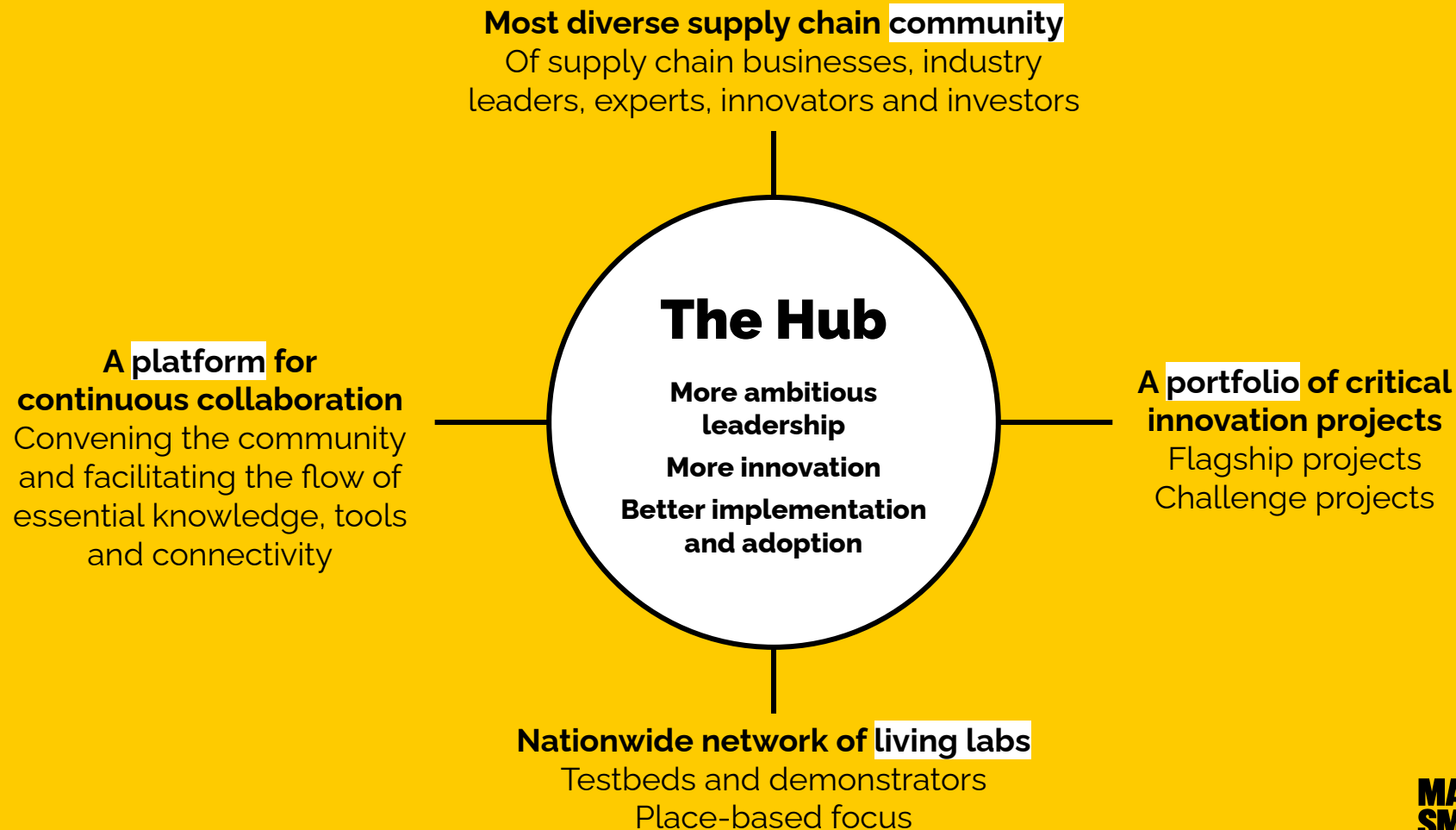
£25M will be invested in creating a portfolio of digital capabilities to deliver smarter supply chains.



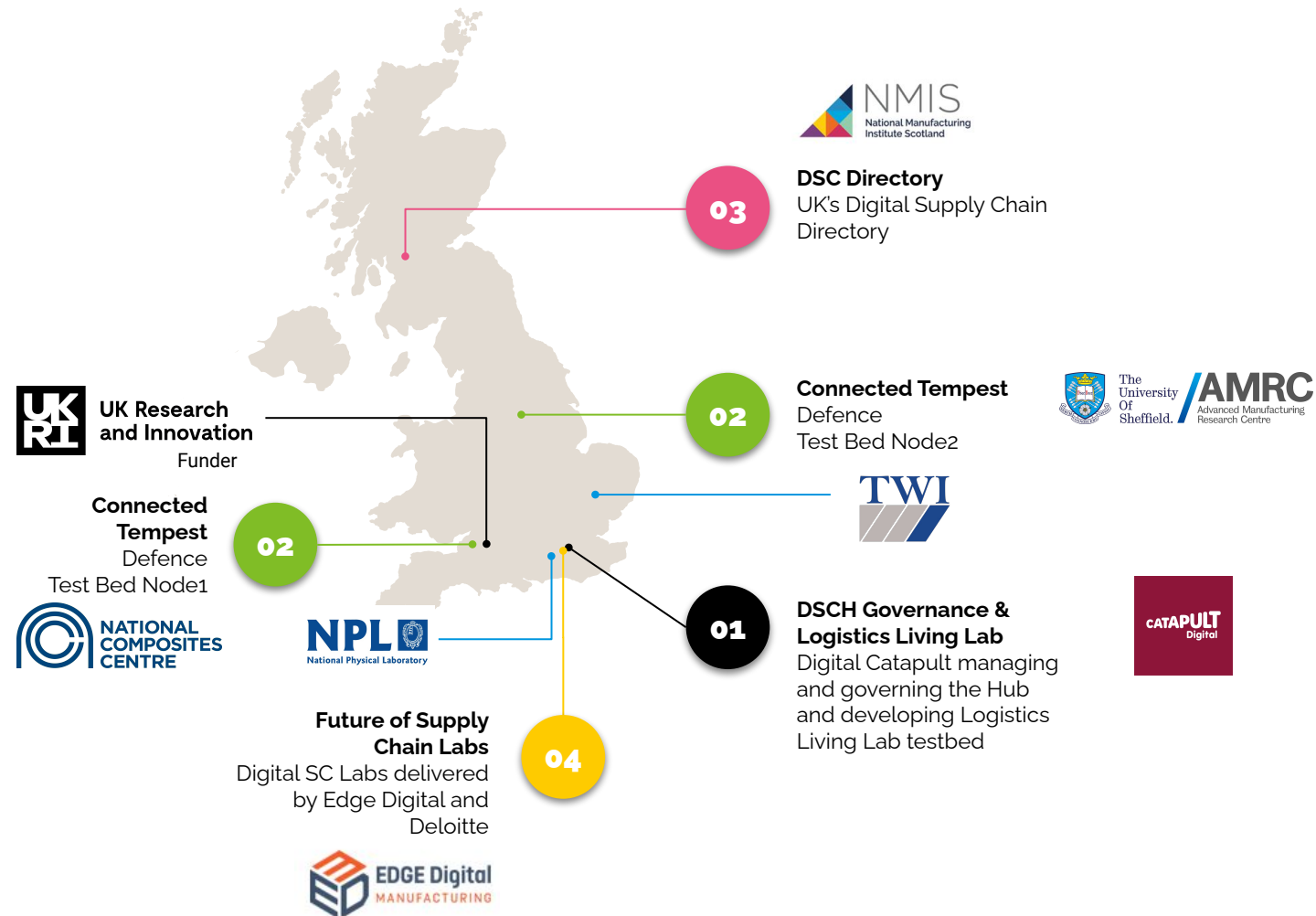


# A true HUB offering

Delivering on the core objectives of Made Smarter Innovation



# Digital Supply Chain Hub: Projects and Testbeds UK





# A Hub for effective collaboration + innovation

## The Hub provides

Right partners,  
expertise, tools and  
tech

Impact-driven,  
tackling critical  
challenges

Facilitating value  
exchange and  
creation

Developmental  
to accelerate  
adoption

A future-focused,  
self-sustaining  
framework

# Our principles:

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**Act as a bridge**

**People first,  
technology second**

**Open by default**

**Creating a shared  
language and voice**

**Building trust to win  
hearts and minds**

**Think long term,  
but enable business  
to act now**

**Strive for  
sustainability**





# Our flagship projects



# CMBEE

A Digital Supply Chain Hub  
Flagship Project



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# Connected Tempest

## High Value Manufacturing Catapult

- Advanced Manufacturing Research Centre North West
- National Composites Centre



## Industrial Partners

- Rolls Royce PLC
- BAE Systems (Operations) Limited

## Supporting Partner

- National Physical Laboratory

## Software Solution Partner

- Siemens Digital Industries



Supply and accelerate digital skills development and connectivity of the Supply chain, driving cost and time savings into the design phase

## Challenges

- **Transparency in the supply chain** and the associated **collaboration culture**
- **Engineering data communication** and addressing the problem of **non-universal understanding of standards** around model-based definition and supply chain collaboration.
- **Software agnostic data communication** and how this can be overcome.

## Technology Development Themes

- **Digital Thread** across the Supply Chain
- **Model-Based Definition and Model-Based Enterprise** across the Supply Chain
- Develop & Apply **Digital Capability Levels** to the Supply Chain



# Logistics Living Lab

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# Logistics Living lab

## Partners

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Microsoft  
Vodafone  
Incept  
Yusen Logistics  
Fuuse

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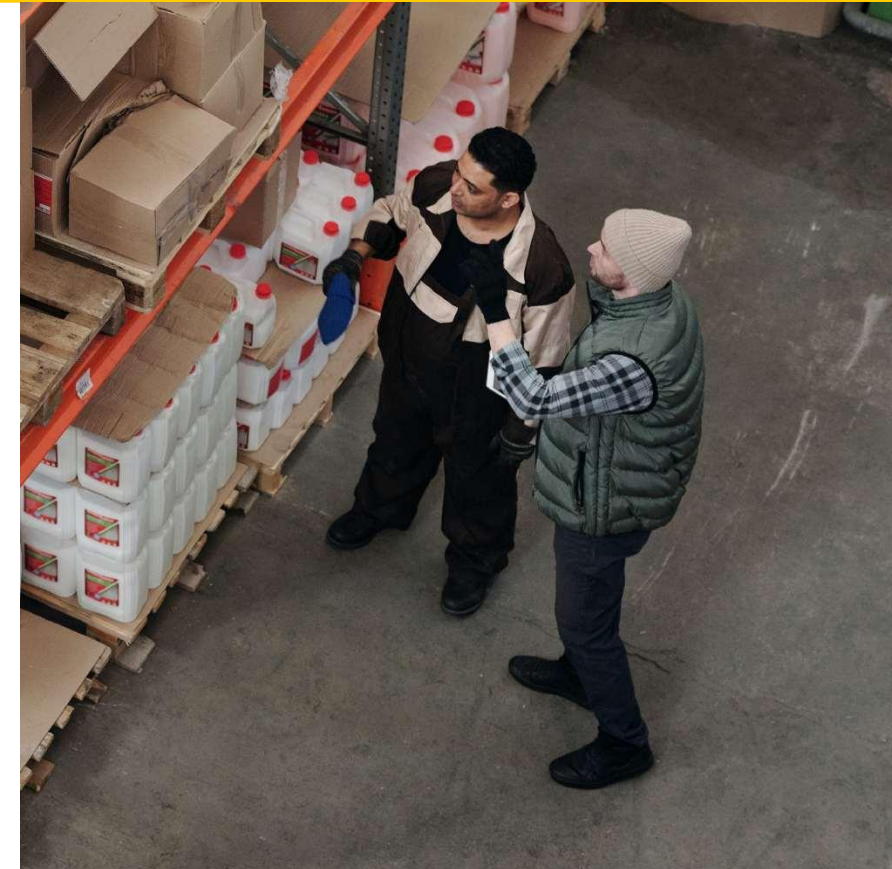
# Logistics Living Lab

## The challenge

Approximately 25% of trucks on the road are empty and 50% are only 25% full, putting significant cost pressures on participants and increased CO2 emissions across the end-to-end manufacturing supply chain.

## The project

Bringing together a number of leading digital innovators, logistics companies, and manufacturers from heavy industry to FMCGs, to develop, demonstrate, and test a shared digital infrastructure based upon a combination of advanced digital technologies (IoT, DLT, AI) aligned to real manufacturing supply chain challenges, with the goal of improving UK logistics through more effective collaboration.



# Vision of Third Way Future Logistics

**Shared digital infrastructure** for common logistics operations, ensuring **optimal fill, routing,** and **data flows** for each participant with **fair** and **proportionate** payment for service provision



# Logistics Living Lab

## Benefits

**100%**

increased van  
utilisation

**10%**

decrease in  
urban particulate  
emissions

**10%**

reduction in  
urban congestion

Increase in urban  
life expectancy

# Future of Supply Chain Labs

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# Future of Supply Chain Labs

The Future of Supply Chain Labs flagship programme is being led by Deloitte and EDGE Digital Manufacturing and funded by the Hub to help SME manufacturers to explore and realise the potential of digital technologies to increase productivity and competitiveness by digitising supply chains.



# Future of Supply Chain Labs

## Benefits

### Improve

- Forecasting, demand management, visibility of real-time data, tracking and traceability
- Stock control
- After sales service and customer satisfaction

### Manage

- Disruption and the impact on lead times
- Materials price volatility

### Measure

- Carbon footprint
- Emissions

### Reduce

- Energy use
- Waste





# Programme tools



# UK Supply Chain Directory

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# UK Supply Chain Directory

Supply shocks like Covid have highlighted UK's dependence upon global, interdependent supply chains.

To build resilience we need supply chains that are adaptable and robust.

We are developing a unique cloud based Supply Chain Directory with extensive company information which is free to use and perpetually updated.

**Get involved, ask us for more information, test the directory today.**





# UK Supply Chain Directory

## Benefits

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**Help companies  
find customers  
and suppliers**

**Identify supply  
chain gaps in  
the UK**

**Reduce the risk  
of supply chain  
shocks impacting  
the UK economy**

**Understand the  
currently existing  
supply journeys  
for critical UK  
products**

# Digital Supply Chain Readiness Tool

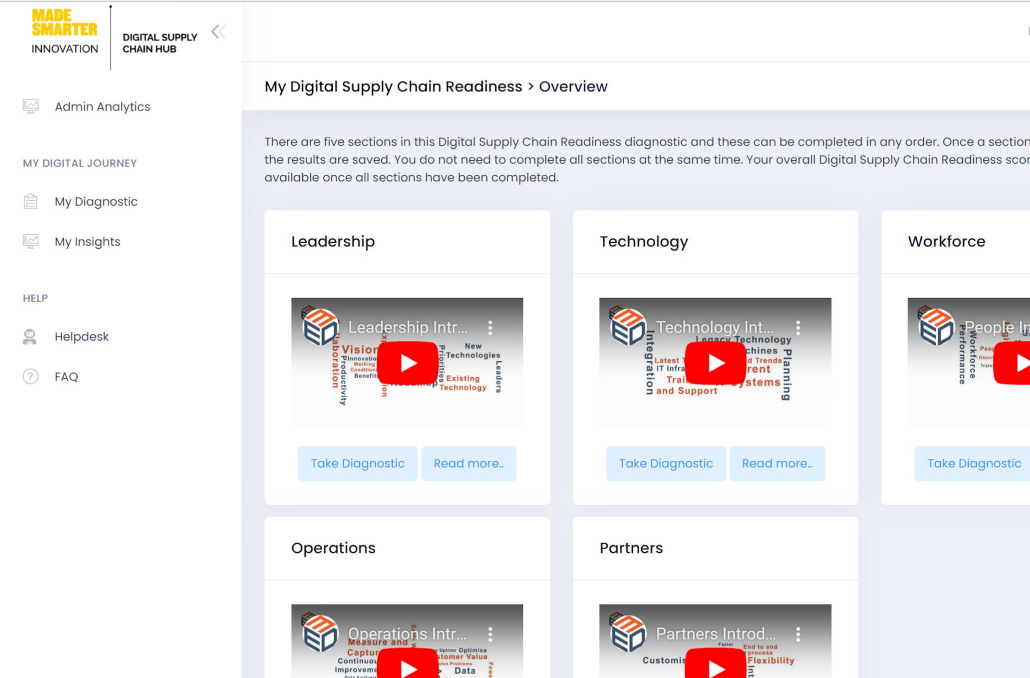
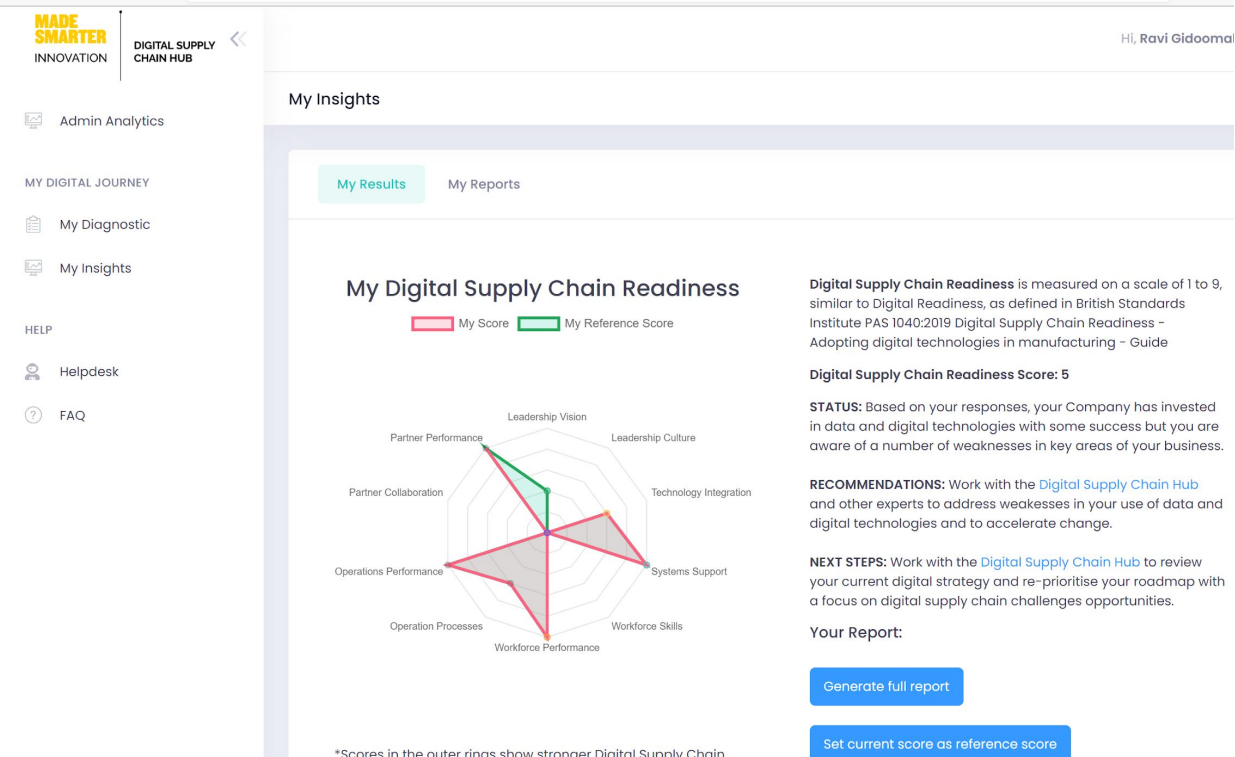
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# Digital Supply Chain Readiness Tool

Developed by EDGE Digital Manufacturing, Digital Catapult, and AI Idea Factory, the Digital Supply Chain Readiness diagnostic tool enables manufacturers to measure their maturity in using digital technologies to achieve their supply chain objectives. It is based on the principles and characteristics of digital readiness outlined in British Standards PAS 1040: Adopting digital technologies in manufacturing.



# Digital Supply Chain Readiness Tool



# Digital Supply Chain Readiness Tool

## Benefits

### Explore characteristics of Digital Supply Chain Readiness

Providing an overview of the key characteristics required to improve your digital supply chain readiness.

### Identify your Digital Supply Chain Strengths and Development areas

50 self-assessment questions to answer, each on a scale of 0-5.

### Download your personalised Insight report

Access insights and recommendations tailored for your unique situation.

### Develop your Digital Supply Chain Roadmap

Use recommendations as building blocks to develop a prioritised short-, medium-, and long-term action plan.





# The testbeds



# The NBT Group

THE **NBT** GROUP



NBT group are leading a consortium who will collaborate to create a testbed environment which enables modelling of automotive spares supply chains and the testing of new and emerging technology solutions capability to deliver a more sustainable business and deliver performance improvement. The testbed will support the development of a sector agnostic digital twin of an entire spare parts supply chain available to any interested party.

# Contained Technologies



Contained Technology along with its consortium is working to develop a testbed in the food sector with a particular focus on the fresh and perishable part of the market. The ambition of this testbed is to facilitate collaboration through the development of secure and permission led digital tools and services.



# Hydrologiq



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The Hydrologiq testbed will enable collaboration between supply chain and end customers by managing disparate data in a central, transparent and extensible platform. This will improve sustainability by allowing processes to be modelled and impact to be assessed, drive down costs through demand aggregation and build better supply chain resilience.



## Circle-8 Textile Ecosystem



Circle-8 Textile Ecosystems is working to develop a testbed with its consortium partners to support the redirection of 400,000+ tonnes of low value, non-reusable textiles from landfill and export into UK based textile recycling plants by 2030.





# Our programme cohorts



COHORT MEMBER

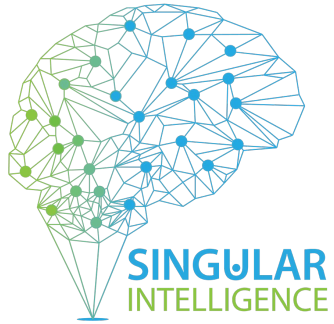
# Warwick Manufacturing Group



WMG aims to provide a synthesised definition of supply chain resilience and identify appropriate mitigation strategies to improve end-to-end supply chain resilience.

COHORT MEMBER

# Singular Intelligence



Singular Intelligence is developing a cost-effective AI-driven supply and demand sensing solution for SMEs that can accurately anticipate market signals and reduce the risk of supply-demand imbalance.



COHORT MEMBER

# Versed AI



Using cutting edge natural language processing and machine learning technology, Versed AI will build on existing capability to identify supply chain relationships and products.



COHORT MEMBER

## Data Catalyst



Data Catalyst will develop the capabilities of Smart ESG, their low-friction ESG product for SMEs to tackle the essential but complex problem of scope three emissions in the supply chain.



COHORT MEMBER

# Infoculture






INFOCULTURE



Infoculture aims to develop a concept framework and model for effective governance of UK supply chain collaboration. These objectives will be captured in a roadmap, and a proof of concept demonstration.

# Opportunities to join the movement?

The Digital Supply Chain Hub provides a wide range of opportunities to get involved and join the movement to transform UK supply chains

		Hub Governance	Virtual Hub			Flagship Projects	Open Call	
		Advisory and Steering	Virtual Hub Networking and Content	Showcasing research and Insights	Investing in Technology solutions	Future of Supply Chain Labs	Receive grant funding	Sponsoring key hub challenges
	Manufactures and SMEs	✓	✓		✓	✓	✓	✓
	Tech Startups	✓	✓	✓		✓	✓	
	Academia	✓	✓	✓		✓	✓	
	Technology Partners	✓	✓	✓	✓	✓		✓
	Finance and Investors	✓			✓			✓



Transforming UK  
manufacturing through  
digitally empowered  
supply chains that are  
more efficient, resilient  
and sustainable.

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**[digitalsupplychainhub.uk](https://digitalsupplychainhub.uk)**

# Supply chains made smarter, together

Powered and empowered  
by digital technology  
and innovation

Collaborative in practice

Regenerative by nature

Adaptive to today's  
challenges

Prepared for  
future challenges

Fully optimised (flows)

**Efficient. Resilient. Sustainable.**

# Supply chains **made smarter,** together.



## IN PARTNERSHIP WITH:



## FUNDED BY:



UK Research  
and Innovation

Register to join the  
innovation ecosystem  
**[digitalsupplychainhub.uk](https://digitalsupplychainhub.uk)**

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