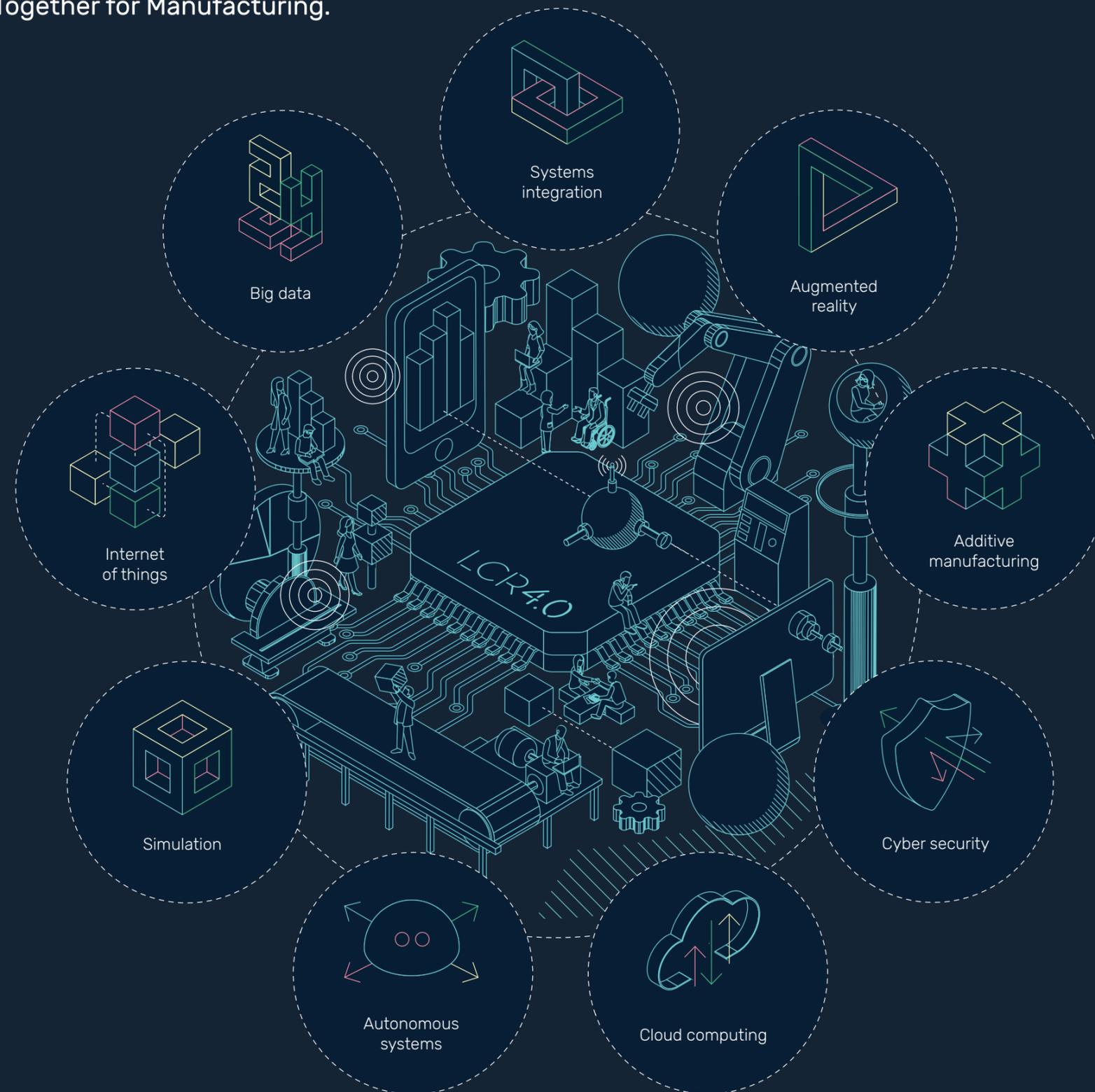# LCR4.0

Together for Manufacturing.

Industry 4.0

The increasing convergence of digital, physical and biological assets – known globally as Industry 4.0 or 'the fourth industrial revolution' – is creating unprecedented opportunities for UK manufacturing businesses and supply chains to optimise productivity and competitiveness.

Technologies such as sensors, the Industrial Internet of Things, virtual reality and simulation, are transforming modern manufacturing by enabling the generation and analysis of digital data that supports the development of smarter products, smarter processes and smarter supply chains.

With so much potential on offer, knowing where to focus effort and resource can be challenging.

- Big data
- Systems integration
- Augmented reality
- Internet of things
- Additive manufacturing
- Simulation
- Autonomous systems
- Cloud computing
- Cyber security

Be part of the evolution

LCR 4.0 brings together world-class, practical support that will transform Liverpool City Region businesses in the manufacturing space.

Part-funded by the European Regional Development Fund, LCR 4.0 creates a collaborative community that connects SMEs to expertise and support from key knowledge assets in the region.

By exploring the challenges and opportunities of Industry 4.0 together, LCR 4.0 helps businesses to increase productivity and de-risk innovation.

www.lcr4.uk

Practical support

LCR 4.0 is a UK manufacturing first that puts the Liverpool City Region at the heart of an evolution which is set to transform production in the modern world economy.

What kind of support does LCR 4.0 offer?

Our dedicated team helps businesses explore the potential of Industry 4.0 technologies by providing support ranging from research and development, knowledge transfer and the acceleration of ideas from concept through to commercialisation.

What are the potential benefits of LCR 4.0 for my business?

We provide advice and guidance on the potential impact of Industry 4.0, including:

- Mass-customisation of products to suit customer demands
- Real-time data on processes and equipment
- More efficient maintenance
- Accelerated development of better products.
- Greater resource efficiency
- Reduced overheads
- Opportunities to access new markets and supply chains

Am I eligible for LCR 4.0 support?

LCR 4.0 supports SMEs engaged in manufacturing and the supply chain (including big science, life sciences, advanced manufacturing, low carbon and renewable technologies and digital and creative industries) within Liverpool, Sefton, St Helens, Wirral, Halton and Knowsley.

Which partners are behind the project?

- University of Liverpool (Virtual Engineering Centre)
- Liverpool John Moores University's Faculty of Engineering and Technology Research Institute
- Sensor City
- The Science and Technology Facilities Council's (STFC) Hartree Centre
- Liverpool City Region Local Enterprise Partnership

Join the LCR 4.0 community to:

Connect

- **SHARE** experiences with others innovating and evolving with industry
- **EXCITE** teams about Industry 4.0 and the opportunities
- **GAIN** knowledge and insights from experts

Innovate

- **ACCELERATE** the development of smarter products and processes
- **IMPROVE** resource efficiency
- **EXPLORE** new markets and opportunities

Digitise

- **ANALYSE** real-time data to create customer value
- **GENERATE** real-time data on processes and equipment
- **INTEGRATE** into eco-systems with value chain partners

Grow

- **ACCESS** skills and expertise to support business growth
- **ADAPT** to remain competitive in a global industry
- **DEPLOY** smarter analytical tools to lower manufacturing costs

LCR 4.0 will:

300
Deliver fully subsidised support to 300 SMEs in the Liverpool City Region

200
Enable collaborations between 200 businesses and partners

70
Support 70 new product development cases across a number of firms

60
Create 60 new jobs in supported businesses

+
Create a virtual workspace for the LCR manufacturing community

+
Demonstrate the potential of data-driven innovation in manufacturing

LCR4.0
Together for Manufacturing.

European Union
European Regional Development Fund

VIRTUAL ENGINEERING CENTRE

LIVERPOOL JOHN MOORES UNIVERSITY

Liverpool City Region
Local Enterprise Partnership

UNIVERSITY OF LIVERPOOL

SENSORCITY

Hartree Centre
Science & Technology Facilities Council

Part of the Local Growth Hub

Local Growth Hub
Liverpool City Region