



The University Of Sheffield.

The UK's first Advanced Manufacturing Innovation District

A vision for the UK's largest innovation led Advanced Manufacturing cluster



The Vision

Create the UK's largest research led Advanced Manufacturing cluster

- A Manufacturing Valley along the spine of the M1, that provides a centre of innovation and productivity for the Northern Powerhouse
- At its heart is the UK's first Advanced Manufacturing Innovation District – a nucleus of innovation, research and technology designed for collaboration and open innovation

Outcomes

- **Existing businesses developed** - Greater productivity and value added activities in lower value added sectors to create and safeguard manufacturing jobs and productivity gains
- **Stronger manufacturing value chain** to target globally growing high value, high tech markets (strengthen UK supply chains)
- **Rapid commercialisation** of research and technology
- **Leading industrial partnerships developed** in high technology sectors
- Inward investment through **OEM (Original Equipment Manufacturer) attraction** and their supply chains



Why now?

The Sheffield City Region (SCR) has a critical mass of translational research and innovation assets that, coupled with strong industrial partnerships, put it in a unique position to lead a resurgence of high value manufacturing in the UK. As a University we are working with our public and private sector partners to deliver this ambition.



The key elements for success in place now are:

- Internationally significant translational research facilities which are industrial scale, driven by industrial partners and focused on supply chains
- 'Nucleus' of activity at Advanced Manufacturing Park (AMP) and Sheffield Business Park
- Availability of a wide range of relevant skills, particularly technical and management
- AMRC Training Centre delivers pathways through apprenticeships in partnership with local businesses to graduate and postgraduate degrees
- Healthy ecosystem of small, medium and large firms operating in similar sectors so that informal methods of knowledge transfer (e.g. transfer of skilled personnel) are effective
- Strong research University attracting global talent and developing new know-how and intellectual property, with a commitment to driving regional economic growth

Why is Advanced Manufacturing so powerful for SCR?

In SCR, manufacturing accounts for more than 80,000 jobs, 11% of employment and more than 14% of GVA (Gross Value Added). In comparison to the UK (8.3% and 10%) we have a 'manufacturing premium'.

- High tech + High skill = high multipliers
 - GVA 1.53 - Every £1m manufacturing GVA, induces a further £530K
 - Jobs 1.62 - Every 100 manufacturing jobs, induces a further 62 jobs in the wider economy
- High productivity = GVA per worker £50,000
- Rich export potential

For further information please email:
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