



The Northern Powerhouse- Prospects amidst a 4th industrial revolution



Annette Bramley, Director

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**An exceptionally effective cluster of research, innovation,
and training excellence;**

**Delivering benefits to the economy and communities in
the North of England and beyond.**

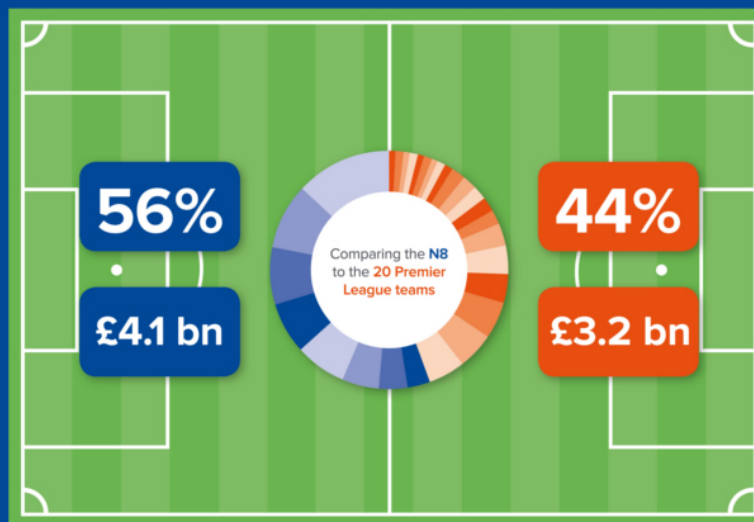


Direct Impact on Northern Economy



- N8 universities deliver into the North a collective income of £4.1 billion p.a.
 - 12% of the entire UK higher education (HE) sector income
- N8 university economic activities generate an additional £5.2 billion impact in other industries.
 - Of this, £4.8 billion is spent in the North
- Adding in the regional impact of N8 students, the overall impact on the North is £12.2 billion p.a.

Collective turnover
per annum The N8
vs The English
Premier League



As the cradle of the first industrial revolution, the north of England sent new products to the world. Now we need the infrastructure, research, innovation and skills which will enable us to lead in the era of Industry 4.0.

Sir Keith Burnett



Benefits digitalisation could have over the next 10 years as part of Industry 4.0:

- boost UK manufacturing by £455bn;
- increase sector growth up to 3% p.a.
- create a net gain of 175,000 jobs;
- reduce CO2 emissions by 4.5%;
- Create new business models.

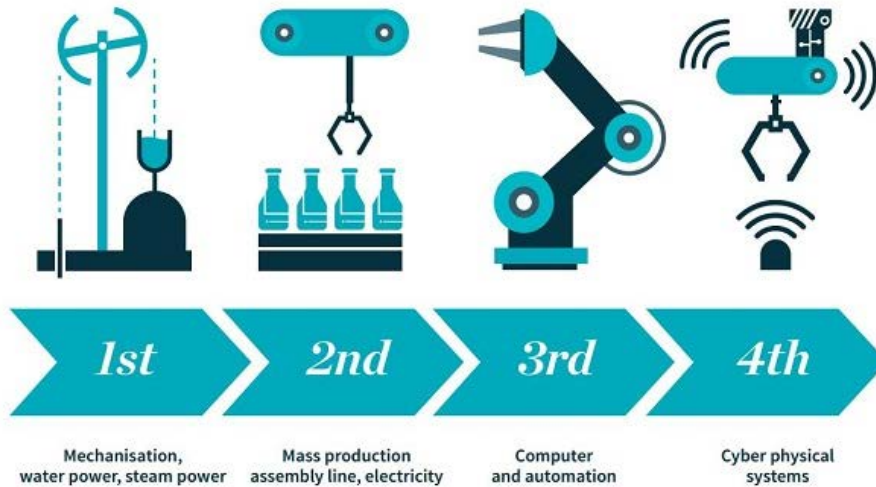
David Moss, Siemens



“The next Industrial Revolution is going to transform the lives of future generations; leading this technological revolution from now will change the future for those growing up here today.”

Henri Murison





The Observer, 20-01-19



“Once the mainstay – even the defining purpose – of the civic university, adult education has been absolutely devastated over the last 20 years.

“Yet, as we move in to the fourth Industrial Age, AI and automation are likely to transform the workplace. Combined with the impact of Brexit on UK employers’ ability to recruit people with the skills our economy needs, the importance of continuous learning and developing new skills seems greater than ever.”

Lord Kerslake, Chair of the UPP
Foundation’s Civic University Commission



Innovation and Entrepreneurship



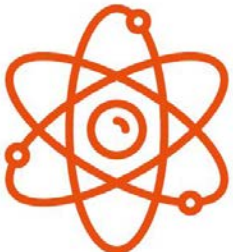
- Universities
 - are crucial for the local economies of their city regions
 - play a vital role in supporting the emergence of new companies and products
 - Train highly skilled people the city regions need



Creating new businesses



Innovating to grow existing businesses



Establishing research hubs that support key industrial sectors



Developing the next generation of business entrepreneurs

Since 2010, N8 universities have generated more than:

 **1000**
Patents

350 
Student start - ups

230 
Companies and social enterprises

Nine of those companies are valued at over **£1m**



All social change begins with a
conversation.

— *Margaret J. Wheatley* —

AZ QUOTES

Devolution

Ensures decisions are made closer to people

Gives increased freedoms and flexibilities to our city regions

Strengthen local economy, create local jobs, foster innovation, review infrastructure

Visible and vocal leadership that galvanises people and shapes attitudes

Cities need

Data and evidence, locally generated, analysed and used

Long term view, thought leadership, anchor institutions

Talent attracted by superb quality of life: well paid jobs, strong businesses, brilliant universities, culture, sport, natural environment as well as professional ambition

Interconnected city networks to share learning and to speak with one voice

Inclusive growth

Summary

