



CIRCULAR ECONOMY

MIDLANDS CLUSTER SNAPSHOT 2023





This is a new cluster of activity across the region that progresses the Midlands towards a more circular economy: companies, across all sectors, transforming current processes of production and waste management aiming toward net-zero outcomes. The Department for Business & Trade has allocated circular economy activities are increasingly embedded in regional industrial activity such as at Smart Parc, Derby, and Tyseley Energy Park, Birmingham.

The West Midlands Combined Authority has an active programme of work in this area built around its Circular Economy Routemap published in 2021. Academic and business-led networks across the Midlands also support the momentum on this critical endeavour such as, Circular Economy clubs, university-led support programmes and strong research credentials at Birmingham, Nottingham, Loughborough and Leicester.

Cluster in context



Almost 84,000 jobs; 11% of UK total.



251 high growth companies (15% of UK) and 96 £100m+ turnover companies (27% of UK).



1% of Midlands university graduates in 2021 studied relevant subjects to the circular economy, including from 4 of the top 25 UK universities for Engineering and Technology, and Natural Sciences.



42% of Innovate UK funding to circular economy businesses since 2005 has been awarded to those with a Midlands address.



Almost 3,600 businesses; 18% of UK total and 83% growth since 2013.



11% of UK circular economy relevant Foreign Direct Investment Capex and 19% of UK circular economy relevant Domestic Direct Investment Capex 2017-2021.

Business Ecosystem



Total Cluster Business Count: 18% of UK; 83% growth since 2013. ¹	3,555
£100m+ Turnover Companies: 27% of all in the UK have a Midlands location. ²	96
High Growth Companies: 15% of all in the UK have a Midlands location. ³	251
Incorporations 2017-22:	1,089

Circular economy is a relatively nascent and undefined industry which cross-cuts several other more traditional and some emerging sectors.

It is also a cluster with relatively few studies or data attached to it in its own right, thus the data presented should be taken with caution and in full knowledge of limitations previously outlined. The data at this stage can be seen as a broad estimate.

Foreign-owned enterprises:

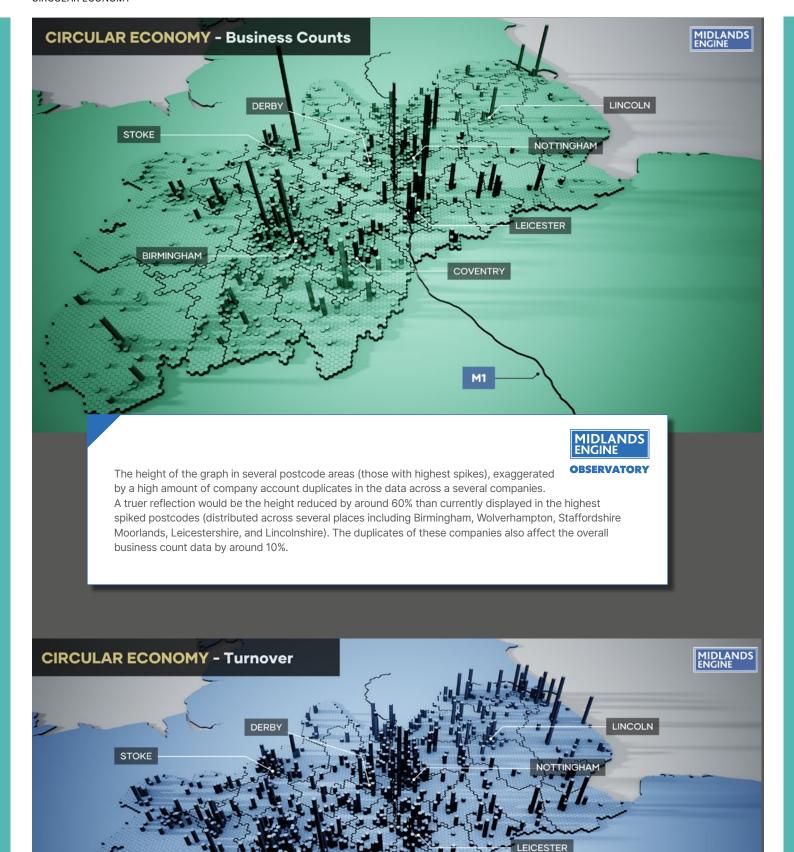
15% of UK circular economy incorporations between 2017 and 2022 have a Midlands location.4

16% 566 are known to be foreign-owned; Higher proportion

of foreign-owned than national average (9.9%).5

1,3,4,5Data City 2023, ²Data City 2023: 20%+ company growth percentage per year.

BIRMINGHAM



COVENTRY

M1

Donald Ward Limited

European Metal Recycling

KEY STRATEGIC COMPANIES



Innovation Ecosystem



Relevant Cluster Organisations:

Sustainability West Midlands; Circular Economy Club; Innovation

Relevant high performing HEI research:

Universities of Birmingham; Loughborough; Nottingham; Leicester; Nottingham Trent; De Montfort

6 Midlands universities with high research ranking in relevant subjects.¹

Significant Innovation Hubs:

Warwick Manufacturing Group; Circular Economy Research Network (CERN); Energy and Bioproducts Research Institute (EBRI); Centre for Circular Economy and Advanced Sustainability (CEAS); Environmental Technologies and Resource Efficiency Support Services (EnTRESS); Centre for Materials Research; Loughborough University's Centre for Sustainable Manufacturing and Recycling Technologies

Innovate UK funding:

£518m since 2005

42% of Innovate UK funding to circular economy businesses had a Midlands location.²

¹Beauhurst 2022: High growth companies utilised accelerators from broad 'energy' area ²REF 2021 GPA > 3.0 in any of Earth systems and environmental sciences; Architecture, built environment and planning; Geography and environmental studies, ²Data City, 2023.





Talent Ecosystem



Estimated Employees:

11% of national.¹

Earnings:

83,697

Average salary £33,436

National average £34,854 (4.1% lower in Midlands).²

Relevant HEI High-Ranking Department:

Universities of Nottingham; Birmingham; Warwick Loughborough

4 universities high ranked: international presence and expertise.3

University Graduates:

1,810

1% of Midlands graduates in 2021 studied relevant subjects to circular economy.4

Graduate Retention: change over 3 years:

91.7%

In relevant industries - manufacturing and construction - the West Midlands has a strong record of retaining graduates and attracting them from other parts of the country. There is a net positive intake of 10% of graduates to these industries.⁵



OBSERVATORY

The height of 2 spikes in a single postcode within East Lindsey (Lincolnshire) is likely to be exaggerated by 2 single large companies, which are unlikely to generate the level of employees accounted for just in these locations, and indeed unlikely to all be related to circular economy. So, while Lincolnshire does retain a notable, "real" level of circular economy activity, the level of circular economy employees identified to these specific postcodes (the highest two spikes) should be disregarded.

¹Data City, 2023, ²ONS ASHE, 2021, ³QS 'Engineering and Technology' & 'Natural Sciences' world subject ranking 2022 – institutions appearing in UK top 25 'Graduates from relevant subjects 2021 (HESA), 52525/2755 first degree graduates trained in region remain in 'Construction; manufacturing' in 3 years of graduating in 2019.





Investment Ecosystem



Invest	.ment/	venture Ca	ipitai Firms:	
Funds	HO'd in	n Midlands	Engine area	

313 Funds have offices in region.¹

FDI Capex 2017-21:

11% of UK total.²

DDI Capex 2017-21:

19% of UK total.3

200

\$63.6m

\$33.14m

FDI Jobs 2017-2021: 22% of UK total.4

DDI Jobs 2017-2021:

13% of UK total.⁵

FDI Projects 2017-2021:

3% of UK total.6

DDI projects 2017-2021: 8% of UK total.⁷

152 jobs

150 jobs

5 projects

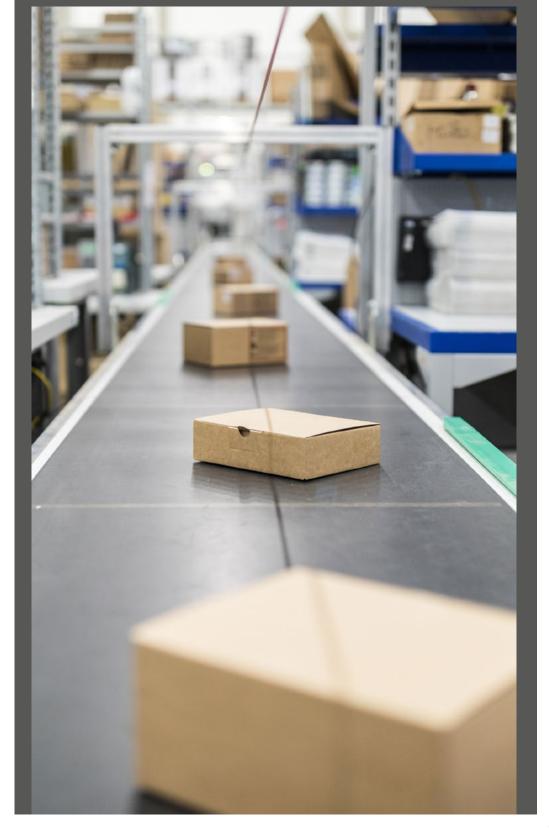
21 projects





COMMENTARY

- DDI capex into the Recycling cluster almost reached its pre-Covid-19 high in 2021.
- The top countries for foreign ownership counts are the USA, Germany, France, and Spain.







wavteq

Beauhurst

This data has been compiled from multiple sources, using classifications based on clusters as proposed by Midlands Engine Partners. Where necessary wider sector data has been used as a 'best proxy'. Unless otherwise stated, all data is contemporary as of May 2023, and is an aggregation of all known counts/data within the Midlands Engine's 65 Local Authorities. Unless otherwise stated, business, employee and turnover figures have been calculated via DataCity based on trading addresses within the Midlands Engine.