



Mapping Innovative Businesses In Lancashire

Summary for Lancashire Enterprise Partnership Team Meeting
15 September 2021



INTRODUCTION

Introduction

- ▶ To support LEP activity, a dataset of innovative businesses in Lancashire which are part of the LEP's priority sectors is being developed.
- ▶ This short presentation aims to outline how this dataset has been created so far, and explain how this is expected to evolve over time. A more detailed set of 70 slides containing the exact systematic process used to collect the data and summaries of it is available on request.
- ▶ The following slides will first look at how data has been collected and collated, before a short walkthrough of the dataset and its summaries are provided.
- ▶ All of the following has been created by Nathan Shoesmith, reporting to Matt Wright.



SOURCES

Systematic Process

- ▶ A systematic process has been used to gather data for this dataset. The following sources have been explored to gather data (exact sources may differ by sector);
 - ▶ Innovate UK funding data since 2004
 - ▶ ERDF/ESF funding data
 - ▶ Search of companies with related SIC codes
 - ▶ Search of companies in related sectors
 - ▶ Beauhurst/Fame Databases
 - ▶ Google Advanced Search
 - ▶ Local Centres/Hubs
 - ▶ Sector Group Membership List
 - ▶ Local Knowledge
- ▶ Following initial data collection, the returned results have then been researched, in most cases individually, to check if the businesses still operate in Lancashire, are active and can be deemed as innovative.



Defining Innovation

- ▶ The term ‘innovation’ is subjective. As such, this dataset does not promise to include every single business that someone may deem to be innovative. The dataset is also a working document - businesses may be added or removed as they are discovered or deemed to be innovating.
- ▶ Innovation does not come in one set form, so to avoid missing large numbers of businesses out, a set definition of innovation has not been used for this dataset. However, the following are indicators of innovation used as part of thinking when judging whether or not a business is innovative;
 - ▶ 1. Collaboration - Engaging and collaborating with outside organisations on R&D e.g. IUK, Universities, Institutes, other companies.
 - ▶ 2. Processes - Using up to date technology in the business, re-engineering processes and ways of working e.g. digitalised, new equipment, novel business models etc.
 - ▶ 3. Structures - Having a structure for innovation e.g. a person who is responsible/allocated to the issue, new product plans, idea generation processes, workshops.
 - ▶ 4. Financials - Defining financial inputs and outputs of Innovation e.g. claiming R&D tax credits, having a budget for innovation, increasing revenue from new products/services, accessing tech equity and tech grants etc.
 - ▶ 5. Intellectual property - owning knowledge that is unique to the company or products that is reproducible, protectable and aligned to markets.



DATA COLLATION

Initial Fields

The below are fields that are currently recorded for each innovative business in the dataset.

- ▶ Identifier
 - ▶ ID
 - ▶ Business Name
- ▶ Innovative Area
 - ▶ Cluster
 - ▶ LEP Priority Sector
 - ▶ Nature of Business (short description)
- ▶ Locality & Authority
 - ▶ Enterprise Type
 - ▶ Authority
 - ▶ Postcode
 - ▶ Registered in Lancashire
- ▶ Database and Source Info
 - ▶ Source
 - ▶ IUK Funding
 - ▶ Exporter Status



OUTPUTS

Collected Data

- ▶ The collected data has been included in a spreadsheet, which can be filtered to help find businesses - i.e. businesses under the Wyre local authority in X sector that are exporters.
- ▶ A screenshot of the dataset can be viewed below.

Identifier		Innovative Area			Locality and Authority				Database and Source Info			Other
ID	Business Name	Cluster	LEP Priority Sector	Scope of Business	Enterprise Type (es)	Authority	Postcode	Registered in Lanc	Source	IUK FUNDIN	EXPORT	DEEP TECI
1	Miralis Data Limited	Clean Tech/Green	Energy and Low Carbon	Electric charging solutions	Small	Lancaster	LA1 4XQ	Yes	Local Knowledge	No	No	Yes
2	Assystem Energy and Infrastructure Limited	Nuclear	Energy and Low Carbon	Renewable energy etc.	Large	Blackburn with Darwen	BB1 2FD	Yes	Innovate UK	Yes	Yes	Yes
3	Oaktec Limited	Nuclear	Energy and Low Carbon	ns in fuel efficiency and emissions re	Micro	Wyre	PR3 5AH	Yes	Innovate UK	Yes	No	Yes
4	Lancaster Cohousing Company Limited	Clean Tech/Green	Energy and Low Carbon	Eco-housing	Small	Lancaster	LA1 3AQ	Yes	Innovate UK	Yes	No	No
5	West & Company	Clean Tech/Green	Energy and Low Carbon	novation consultants, including ener	Micro	Wyre	PR3 1LY	No	Innovate UK	Yes	No	No
7	Precision Polymer Engineering Limited	Clean Tech/Green	Energy and Low Carbon	Engineering	Medium	Blackburn with Darwen	BB1 3EA	Yes	Innovate UK	Yes	Yes	No
8	Intouch Ltd	Clean Tech/Green	Energy and Low Carbon	Flood management and prevention	Small	Lancaster	LA4 4ET	Yes	Innovate UK	Yes	No	Yes
9	Studsvik UK Ltd	Nuclear	Energy and Low Carbon	Graphite solutions	Large	Wyre	PR5 6UP	Yes	Innovate UK	Yes	No	Yes
10	Pilkington United Kingdom Limited	Clean Tech/Green	Energy and Low Carbon	Various solutions	Large	West Lancashire	L40 5UF	Yes	Innovate UK	Yes	Yes	No
11	NSG Environmental Limited	Nuclear	Energy and Low Carbon	Nuclear solutions	Large	Chorley	PR7 1NH	Yes	Innovate UK	Yes	No	Yes
12	Victrex Manufacturing Limited	Nuclear	Energy and Low Carbon	Renewable energy devices	Large	Wyre	FY5 4QD	Yes	Innovate UK	Yes	Yes	Yes
13	Vital Energi Utilities Limited	Clean Tech/Green	Energy and Low Carbon	Low carbon tracking	Large	Blackburn with Darwen	BB1 2LD	Yes	Innovate UK	Yes	Yes	Yes
14	Westinghouse Electric Company UK Limited	Nuclear	Energy and Low Carbon	Nuclear solutions	Medium	Fylde	PR4 0XJ	Yes	Innovate UK	Yes	Yes	Yes
15	Graham Engineering Limited	Nuclear	Energy and Low Carbon	Renewable energy	Medium	Pendle	BB9 8SY	Yes	Innovate UK	Yes	Yes	Yes
16	Hybrid Instruments Limited	Clean Tech/Green	Energy and Low Carbon	Analysis products	Micro	Lancaster	LA1 4YW	Yes	Innovate UK	Yes	Yes	No
17	Entrust Microgrid LLP	Clean Tech/Green	Energy and Low Carbon	Smart home microgrids	Micro	Lancaster	LA1 2TH	Yes	Innovate UK	Yes	No	Yes
18	Lancaster University	Clean Tech/Green	Energy and Low Carbon	Multiple	Academic	Lancaster	LA1 4YX	Yes	Innovate UK	Yes	No	No
19	Rinicom Limited	Clean Tech/Green	Energy and Low Carbon	Communications and intelligence	Small	Lancaster	LA1 2RX	Yes	Innovate UK	Yes	Yes	No
20	Digital Look Limited	Clean Tech/Green	Energy and Low Carbon	Water market platform	Small	Lancaster	LA1 1XB	Yes	Innovate UK	Yes	No	No
21	Mapsar Limited	Clean Tech/Green	Energy and Low Carbon	Transition to low carbon	Micro	Ribble Valley	BB7 4SZ	Yes	Innovate UK	Yes	No	No
22	Stopford Energy and Environment Limited	Nuclear	Energy and Low Carbon	Environmental innovations	Small	Lancaster	LA1 4YQ	Yes	Innovate UK	Yes	No	No
23	Centre for Global Eco-Innovation	Clean Tech/Green	Energy and Low Carbon	Eco-innovation centre	Academic	Lancaster	LA1 4YX	Yes	North West Coastal Science	No	No	No
24	UK Centre for Ecology and Hydrology	Clean Tech/Green	Energy and Low Carbon	Research	Academic	Lancaster	LA1 4YX	Yes	North West Coastal Science and Innov	No	No	No
25	Centre for Waste Management (CWM)	Clean Tech/Green	Energy and Low Carbon	Research and environmental performance s	Academic	Preston	PR1 2HE	Yes	North West Coastal Science and Innov	No	No	No
26	The Demand Centre	Clean Tech/Green	Energy and Low Carbon	Research and energy partnerships	Academic	Lancaster	LA1 4YX	Yes	North West Coastal Science and Innov	No	No	No



OUTPUTS

Statistics

- ▶ The collection of data also allows the output of estimated statistics via Beauhurst. For example, the below statistics are for innovative businesses in the energy and low carbon sector in Lancashire.
- ▶ These statistics are estimated and may include some business activity completed by Lancashire based-businesses outside of the county.

£952m

TOTAL TURNOVER IN LATEST
FINANCIALS

£95.2m

AVERAGE TURNOVER

5,795

ESTIMATED TOTAL EMPLOYEES

251

ESTIMATED AVERAGE EMPLOYEES



OUTPUTS

Mapping

- ▶ Detailed mapping has been created from the dataset, with each business being added to a map, by their sector.
- ▶ The below is an example from the Energy and Low Carbon sector.





OUTPUTS

Mapping

- ▶ Detailed mapping has been created from the dataset, with each business being added to a map, by their sector.
- ▶ The below is an example from the Energy and Low Carbon sector.



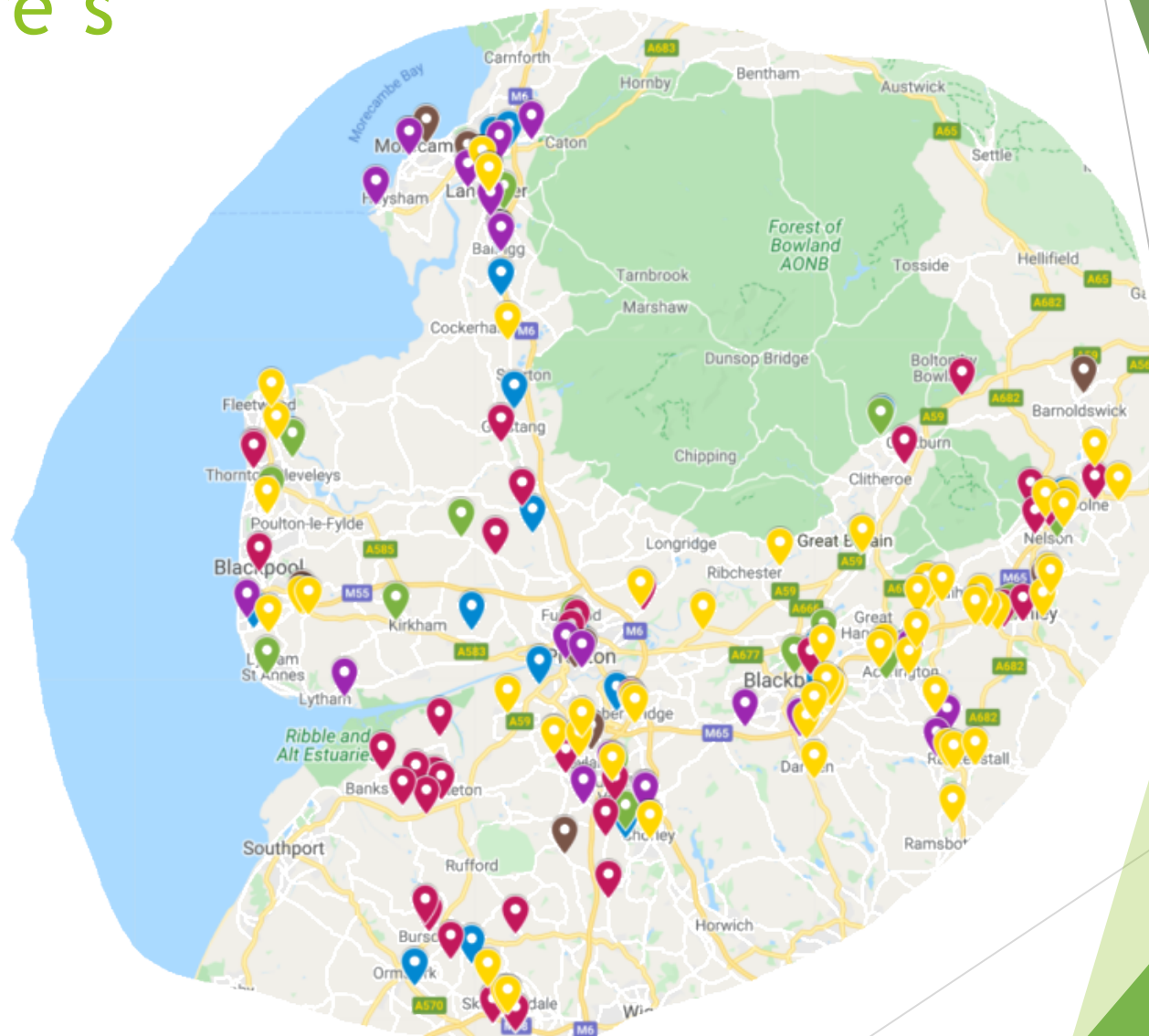


OUTPUTS

Map of Lancashire's Innovative Businesses

Map of locations of businesses in Lancashire by available postcode, as per recorded data.

(Also available as a KML file and through interactive maps - made with Google My Maps).



Key:

Tourism, Culture and Place

Advanced Manufacturing

Energy and Low Carbon

Digital

Health

Food and Agriculture



Next Steps & Data Evolution

- ▶ There are multiple opportunities to utilise the summaries and mapping in this presentation and associated datasets. It is hoped that together, these can help to inform future strategic activity.
- ▶ An expansion of the fields in the spreadsheet of innovative businesses could be carried out without the need for any great resources in order to help more parts of the LEP team - for example, looking at whether the collated innovative businesses currently export internationally has already been added to the spreadsheet to support work around the internationalisation strategy.
- ▶ While attempts have been made to make the datasets as complete as possible, this presentation has recognised that data will evolve over time and completeness may be limited somewhat due to the subjective nature of defining innovation.
- ▶ All priority sectors now have a good level of coverage following the use of the systemic processes outlined in this presentation. Conversations with stakeholders are already underway to help make additions to the datasets - a list of stakeholders to consider contacting has been listed in the main associated spreadsheet. Data validation and sense-checking using FAME and other automated and manual methods is also being worked on.
- ▶ The formats of the datasets and maps have been designed in such a way to make additions and reductions as simple as possible, recognising the need for the data to evolve over time.



Questions?

Nathan Shoesmith, Lancashire Enterprise Partnership
nathan.shoesmith@lancashirelep.co.uk



Lancashire
Enterprise Partnership

This presentation and associated dataset was originally created in September 2021.