



# ***Assessing Learning and Training Provision Serving the Automotive Industry***

## ***Technical Annexe***

March 2016

*This report was produced and published by **Semta**.*

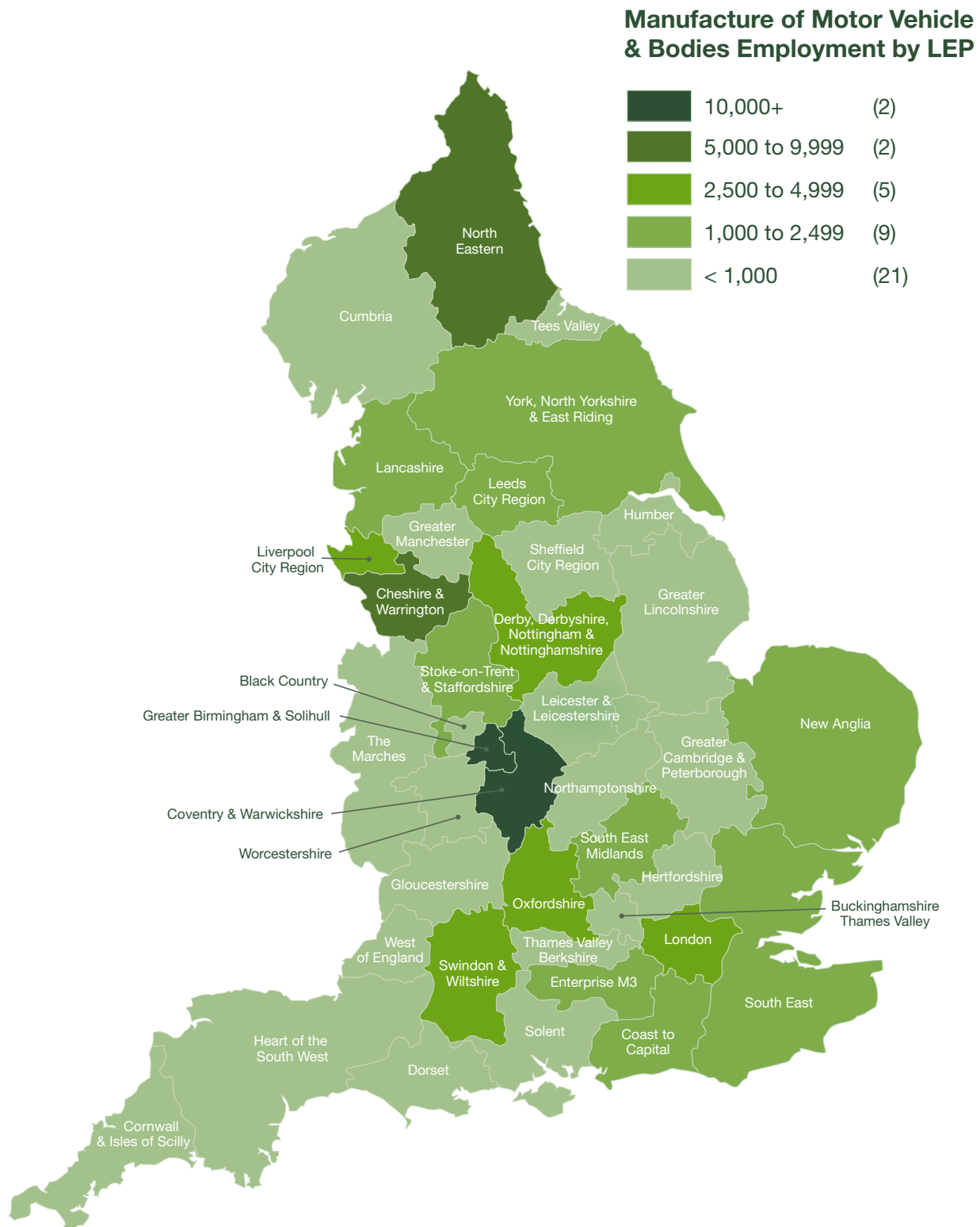
**This annexe supports the research report *Assessing Learning and Training Provision Serving the Automotive Industry*. It provides an additional regional data source that Local Enterprise Partnerships (LEPs) may find useful.**

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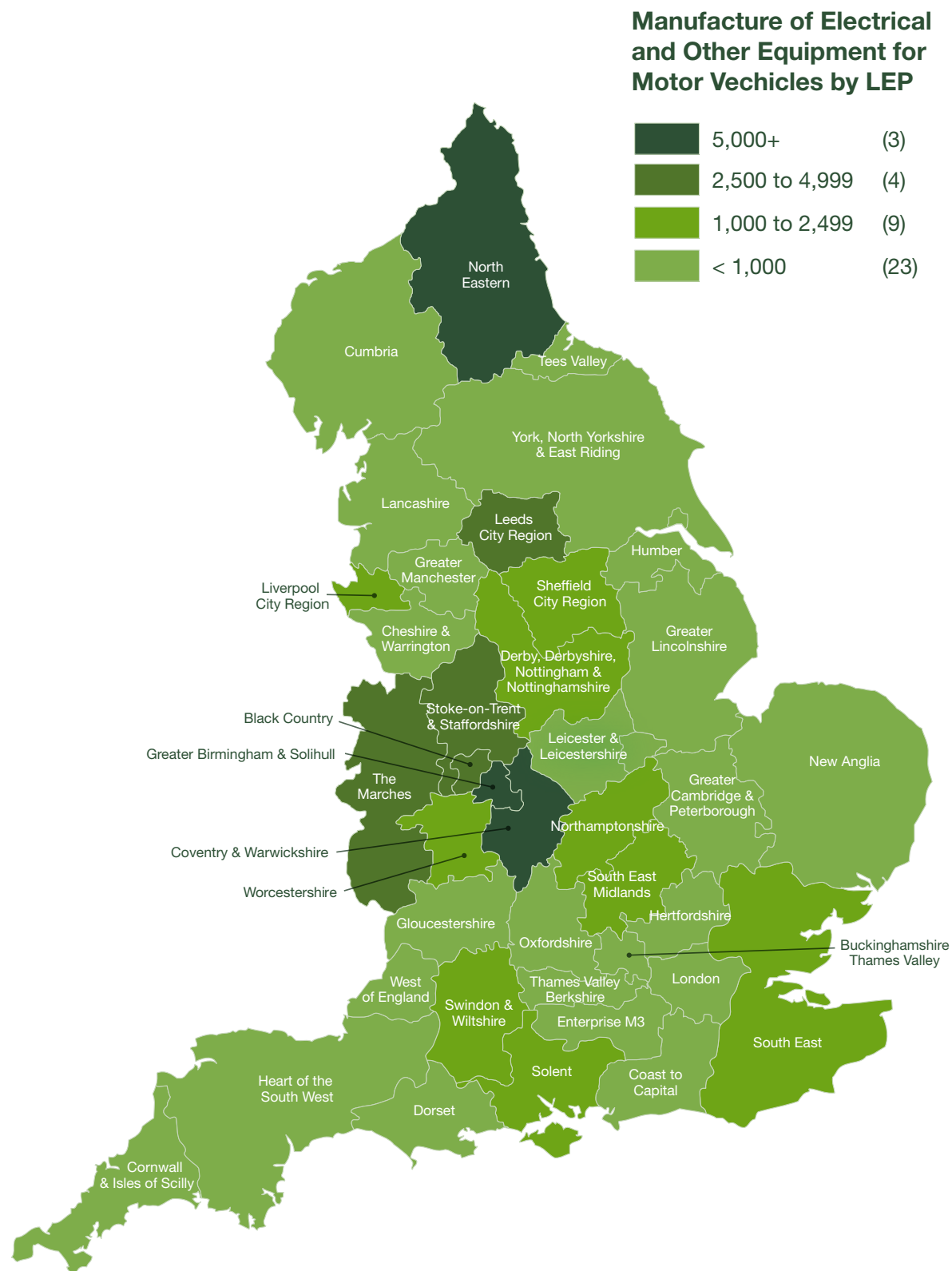
# 1 Employment

**Figure 1:** Numbers employed within the Manufacturing of Motor Vehicles and Bodies sub-sector in England by LEP area



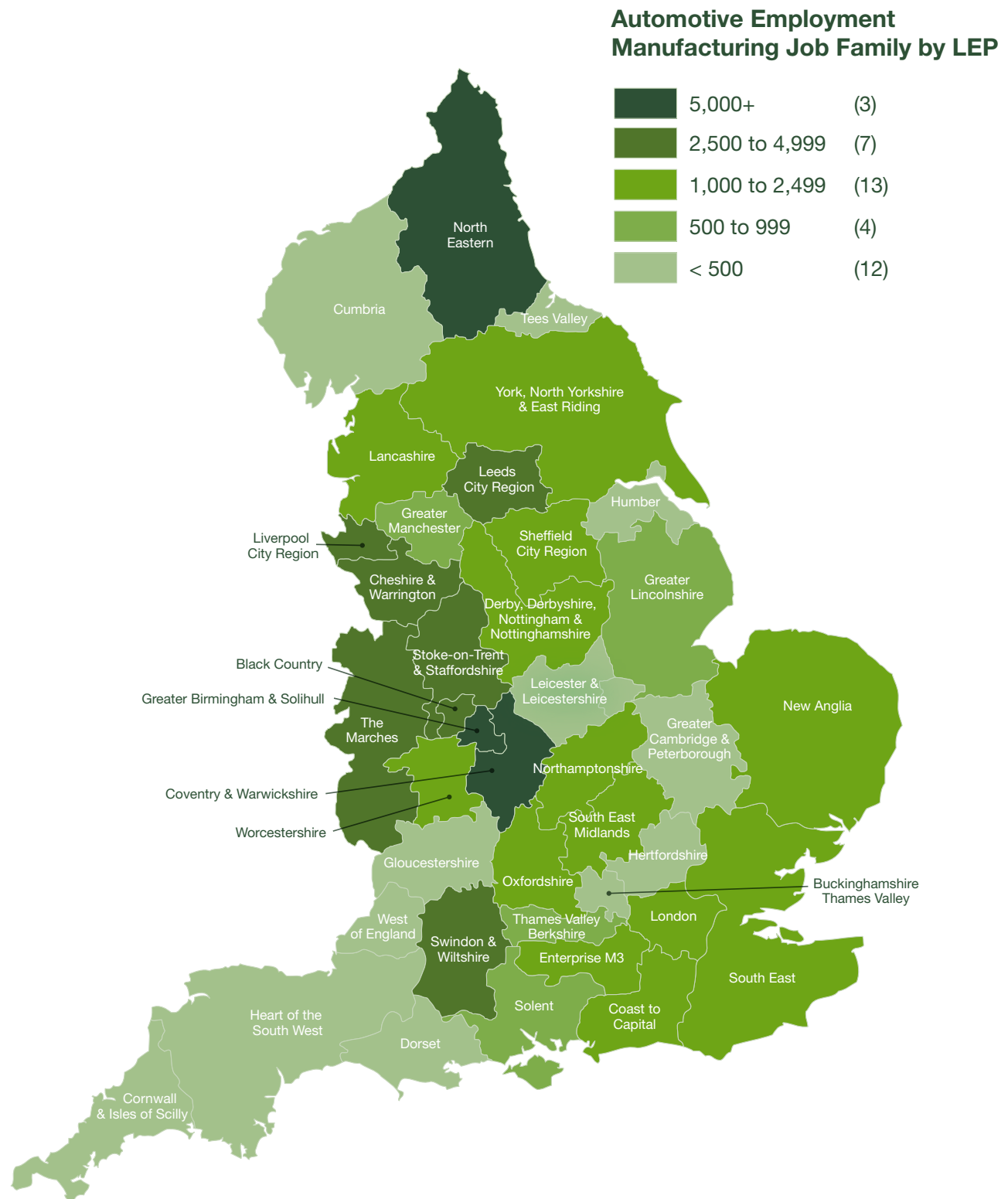
Source: BRES; ONS 2014

**Figure 2:** Numbers employed within Manufacturing of Electrical and Other Equipment for Motor Vehicles sub-sector in England by LEP area



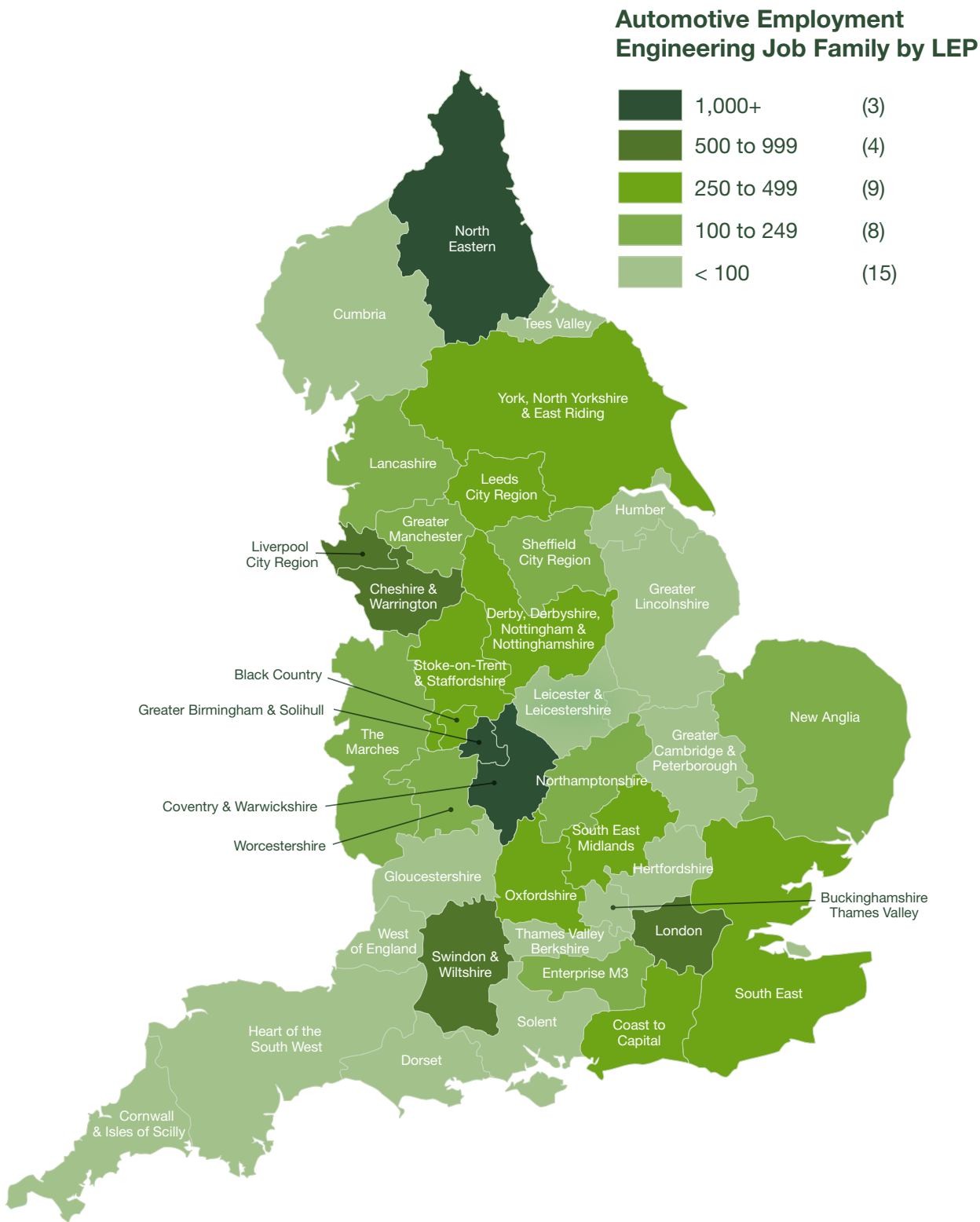
Source: BRES; ONS 2014

**Figure 3:** Estimated numbers employed within the Manufacturing job family at an LEP area level within England



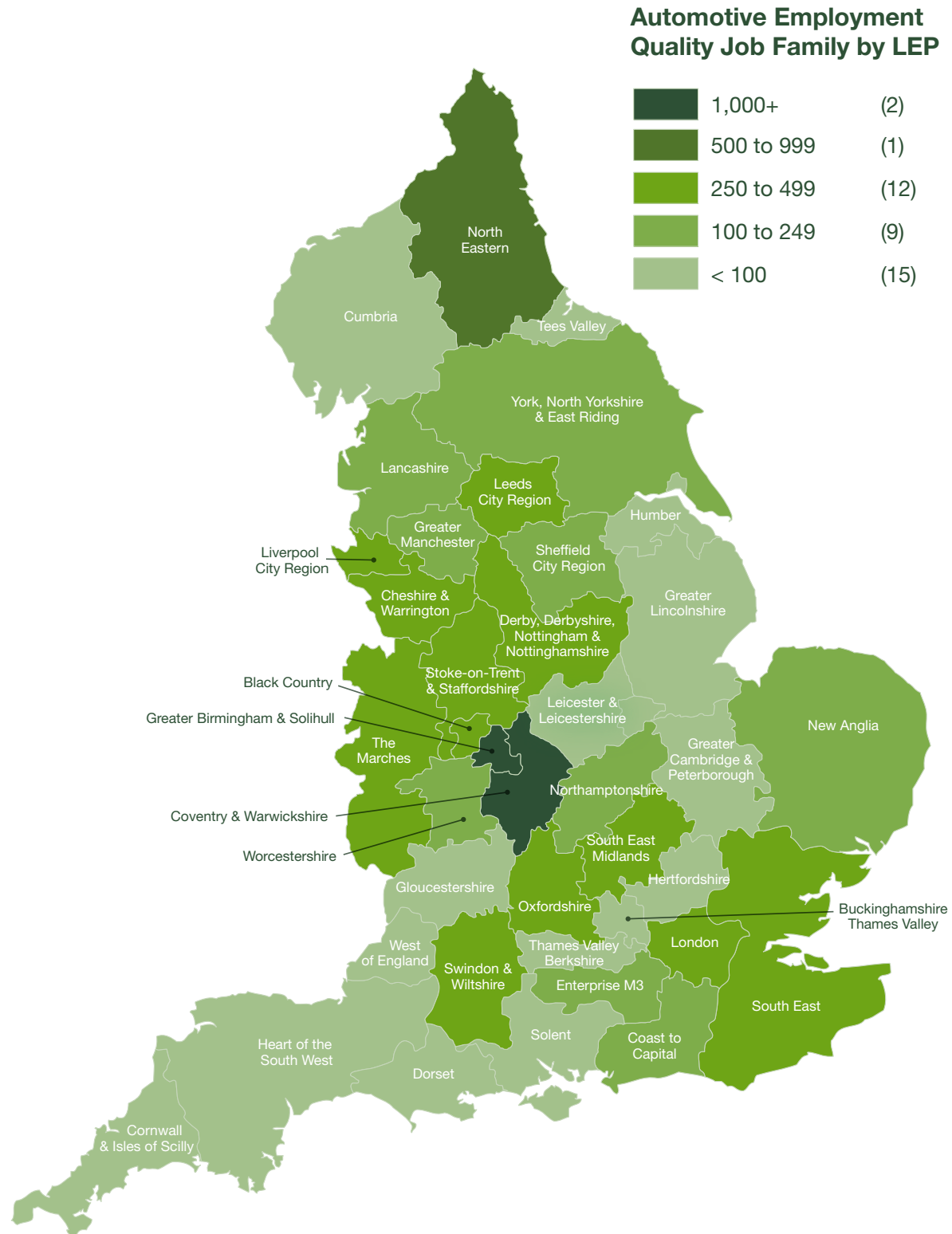
Source: Semta Local Automotive Employment Model

**Figure 4:** Estimated numbers employed within the Engineering job family at an LEP area level within England



Source: Senta Local Automotive Employment Model

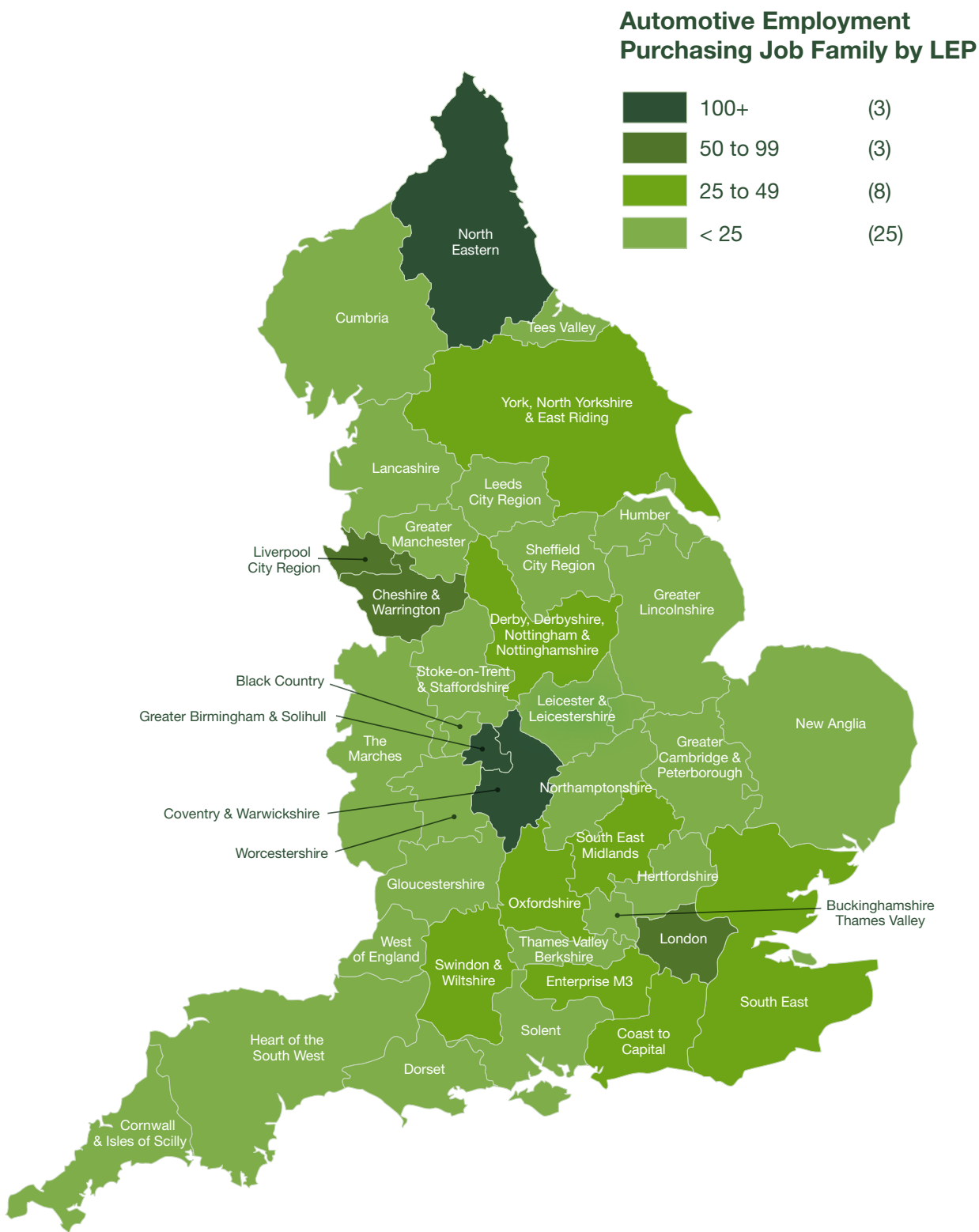
**Figure 5:** Estimated numbers employed within the 'Quality' job family at an LEP area level within England



Source: Semta Local Automotive Employment Model

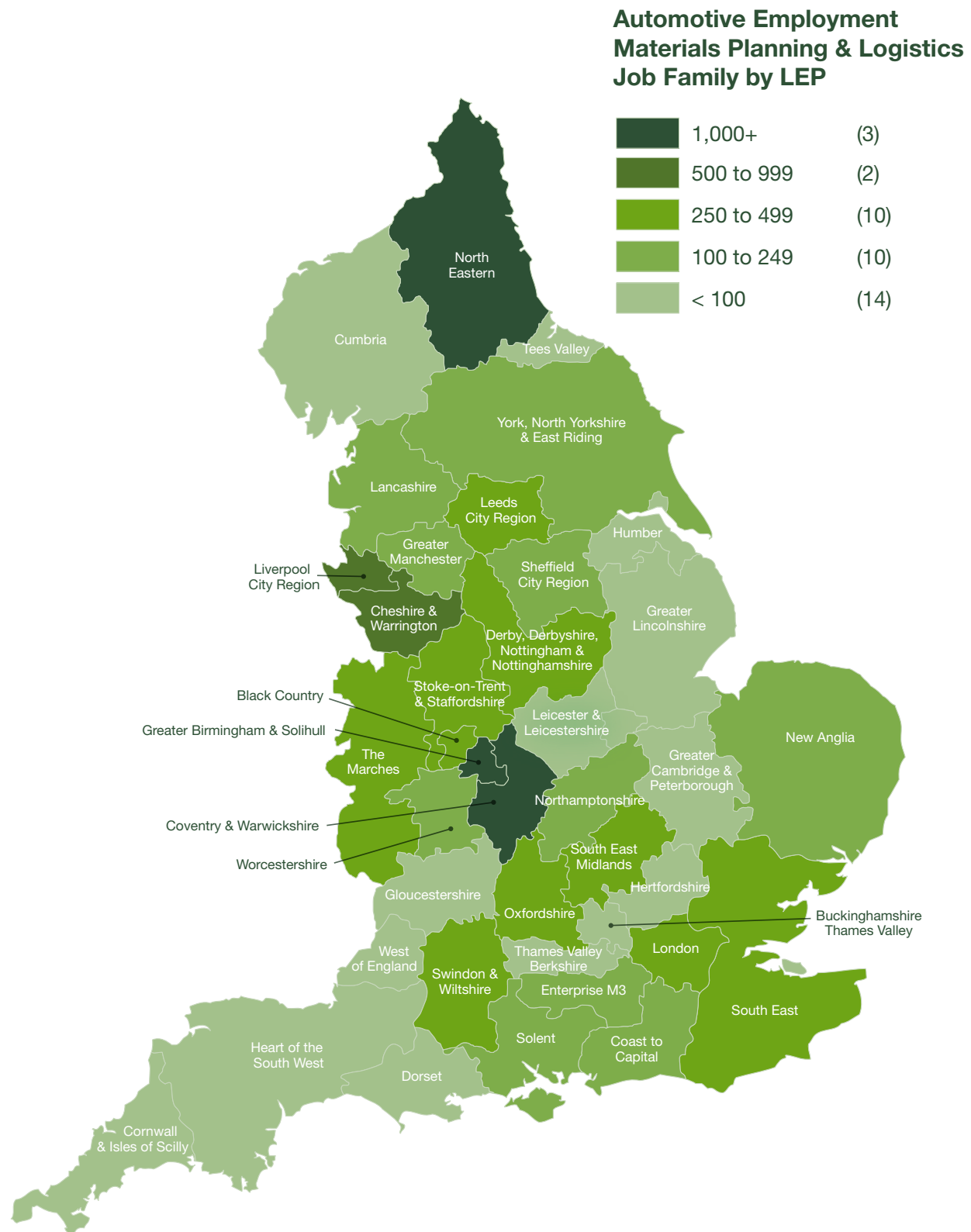


**Figure 6:** Estimated numbers employed within the Purchasing job family at an LEP area level within England



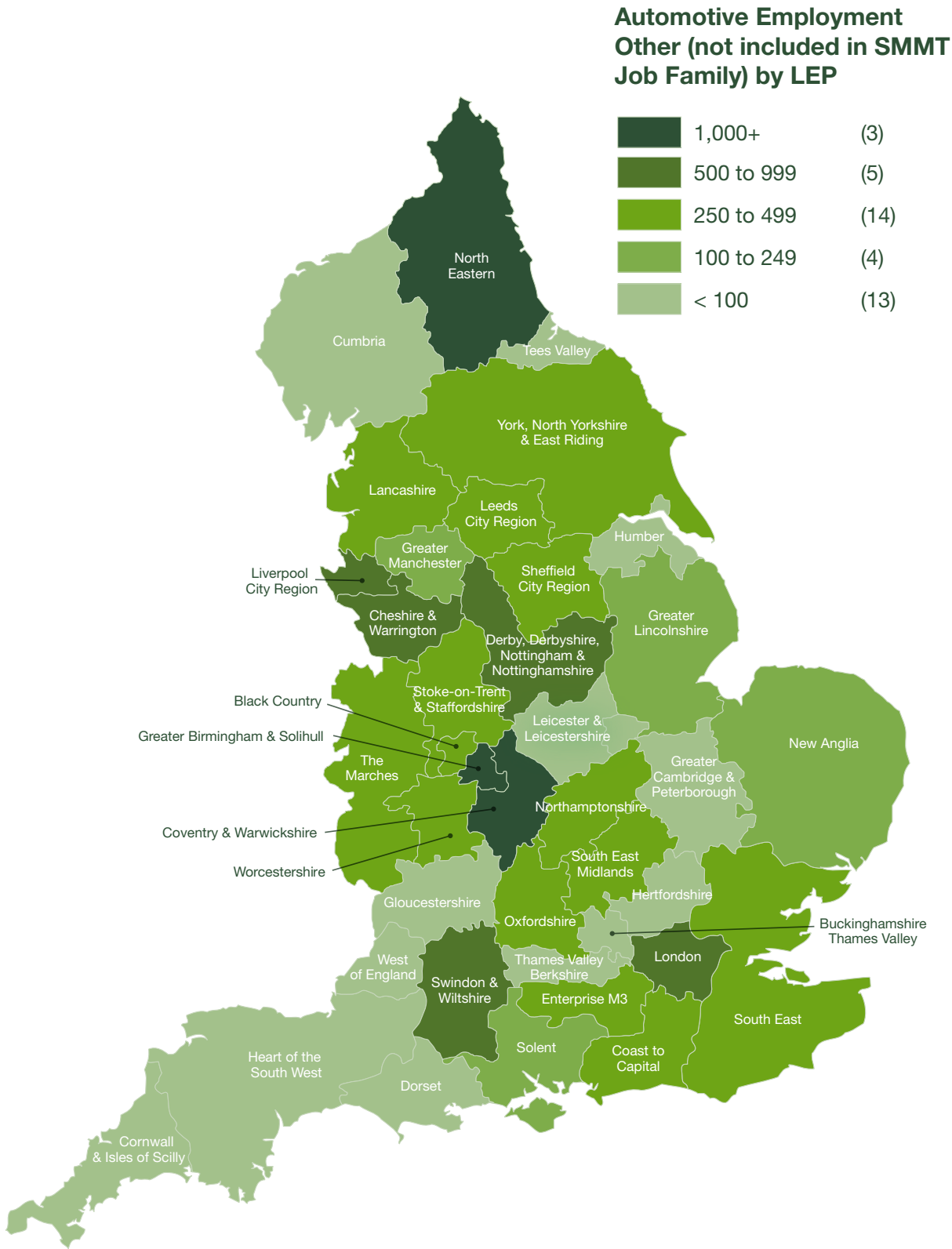


**Figure 7:** Estimated numbers employed within the 'Materials Planning and Logistics' job family at an LEP area level within England



Source: Semta Local Automotive Employment Model

**Figure 8:** Estimated numbers employed within ‘Other’ employment (not included in a designated job family) at an LEP area level within England

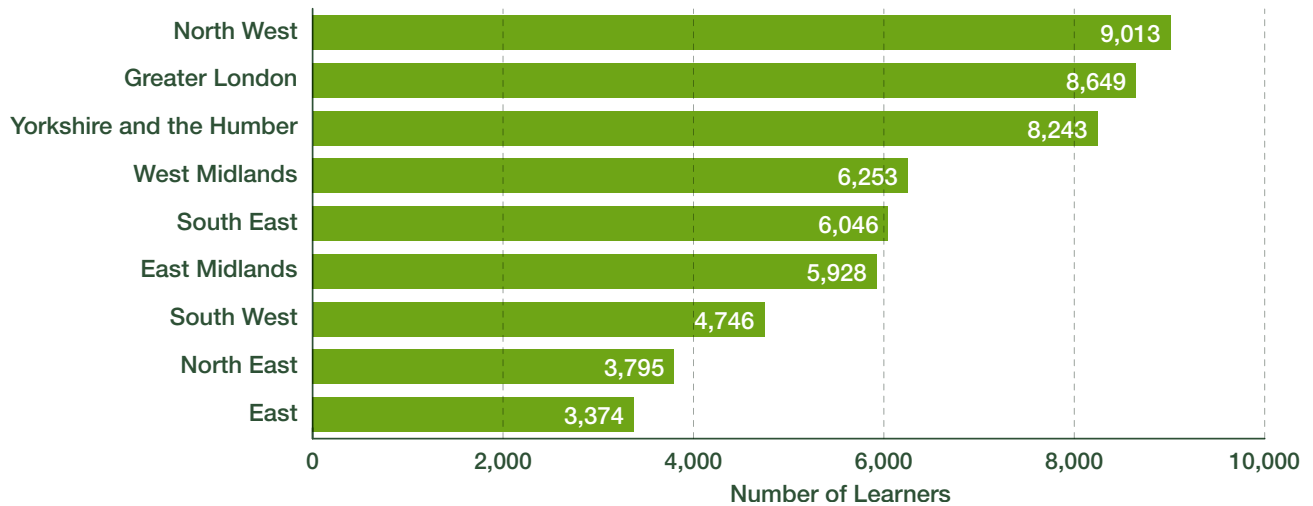


Source: Semta Local Automotive Employment Model

## 2 Higher Education (HE) Provision

Automotive Engineering job family - A total of about 56,000 learners undertook this provision.

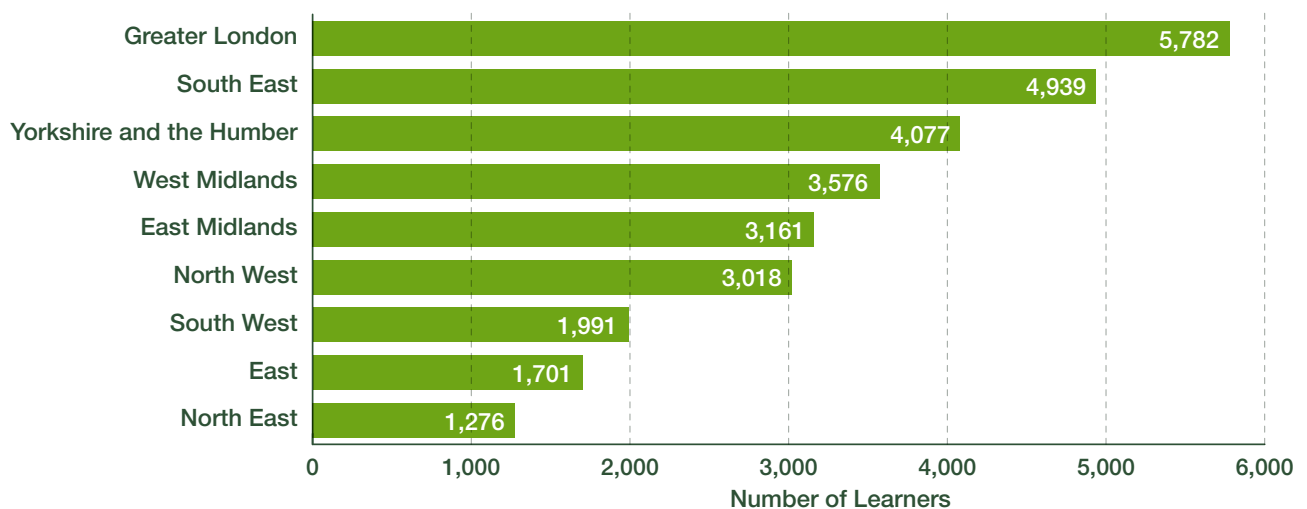
**Chart 1:** Number of HE Engineering Learners (FPE) by Region



Source: HEFCE/Semta

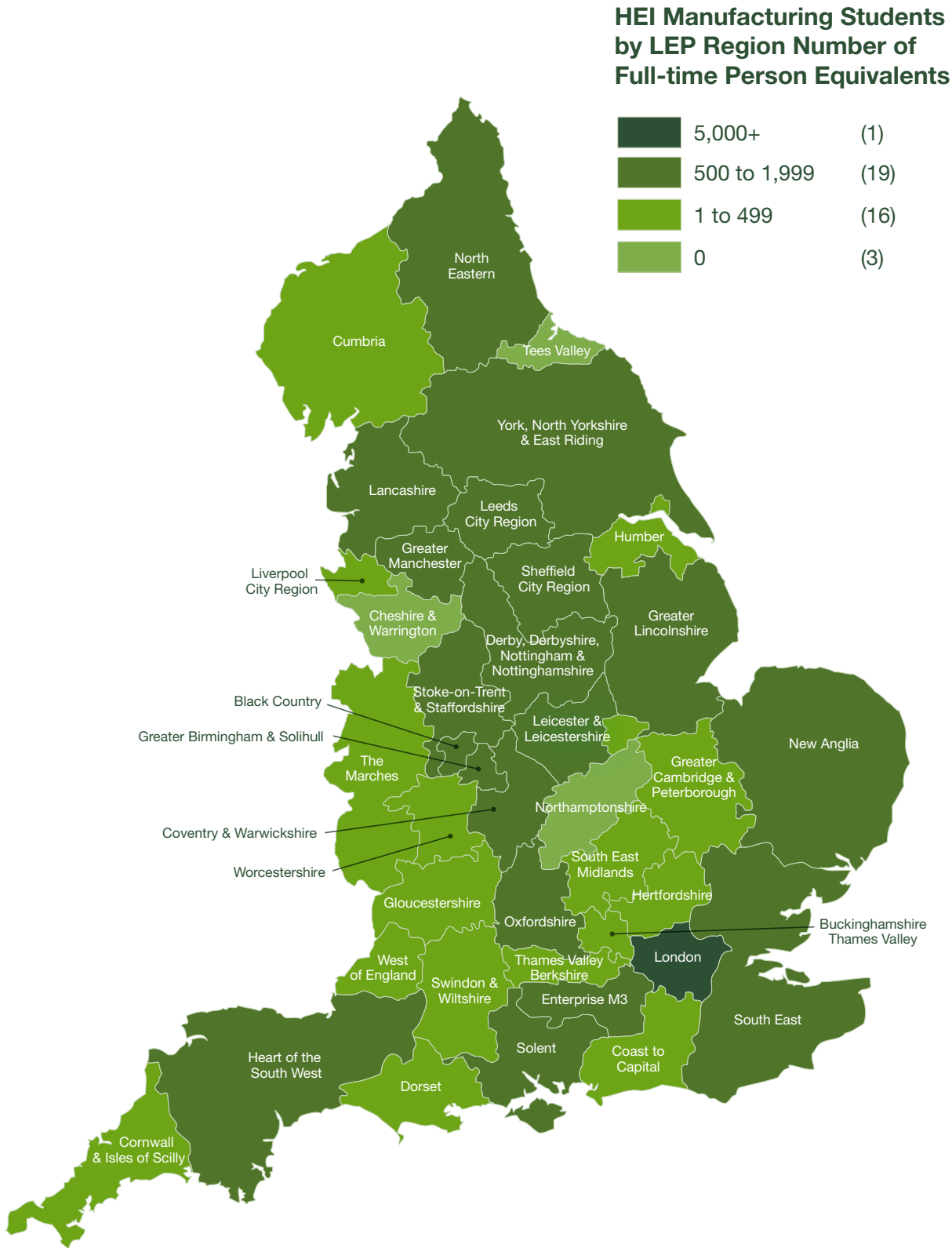
Automotive Manufacturing job family - A total of just under 30,000 learners undertook this provision.

**Chart 2:** Number of HE Manufacturing Learners (FPE) by Region



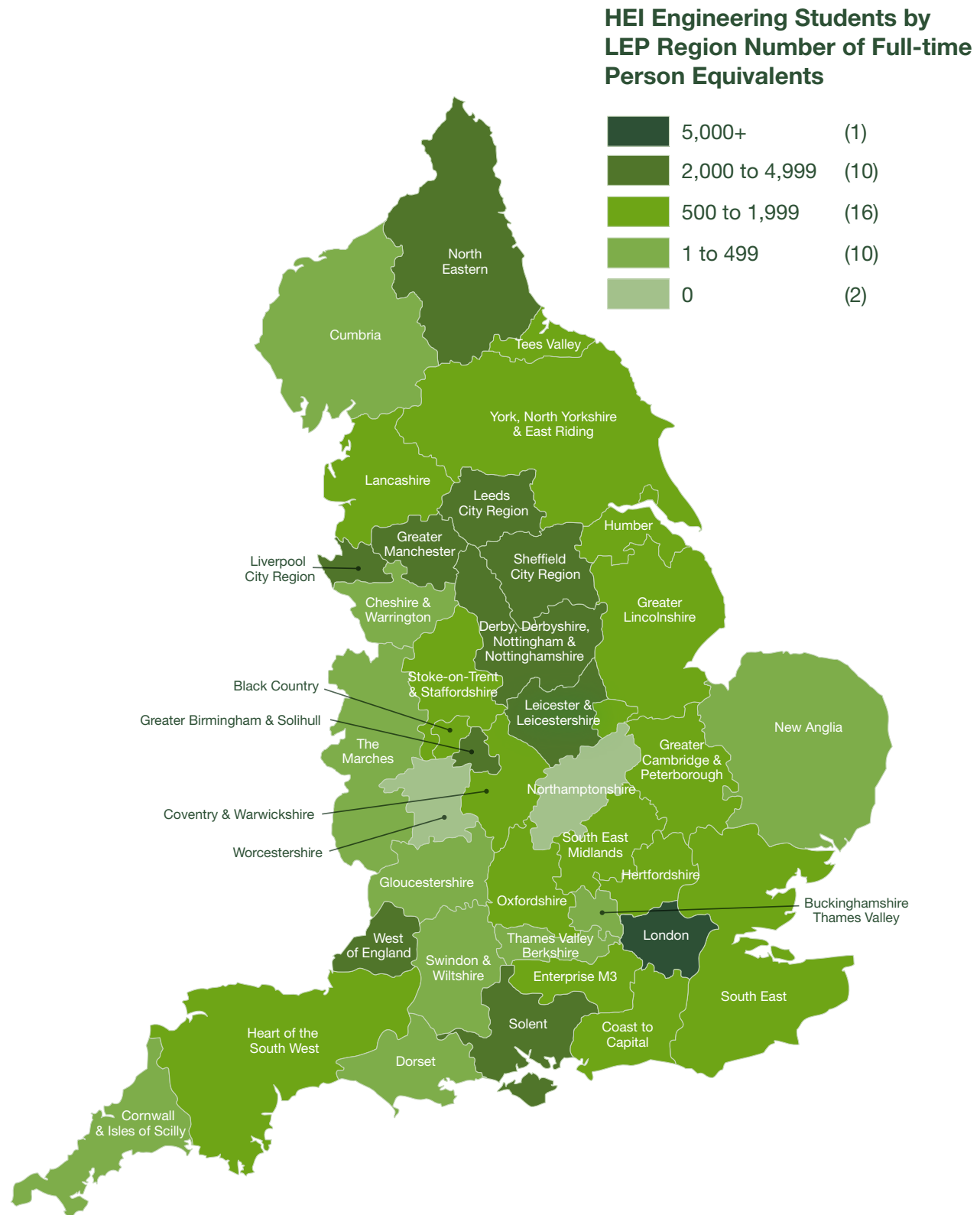
Source: HEFCE/Semta

Figure 9: HE Manufacturing Learners by LEP area



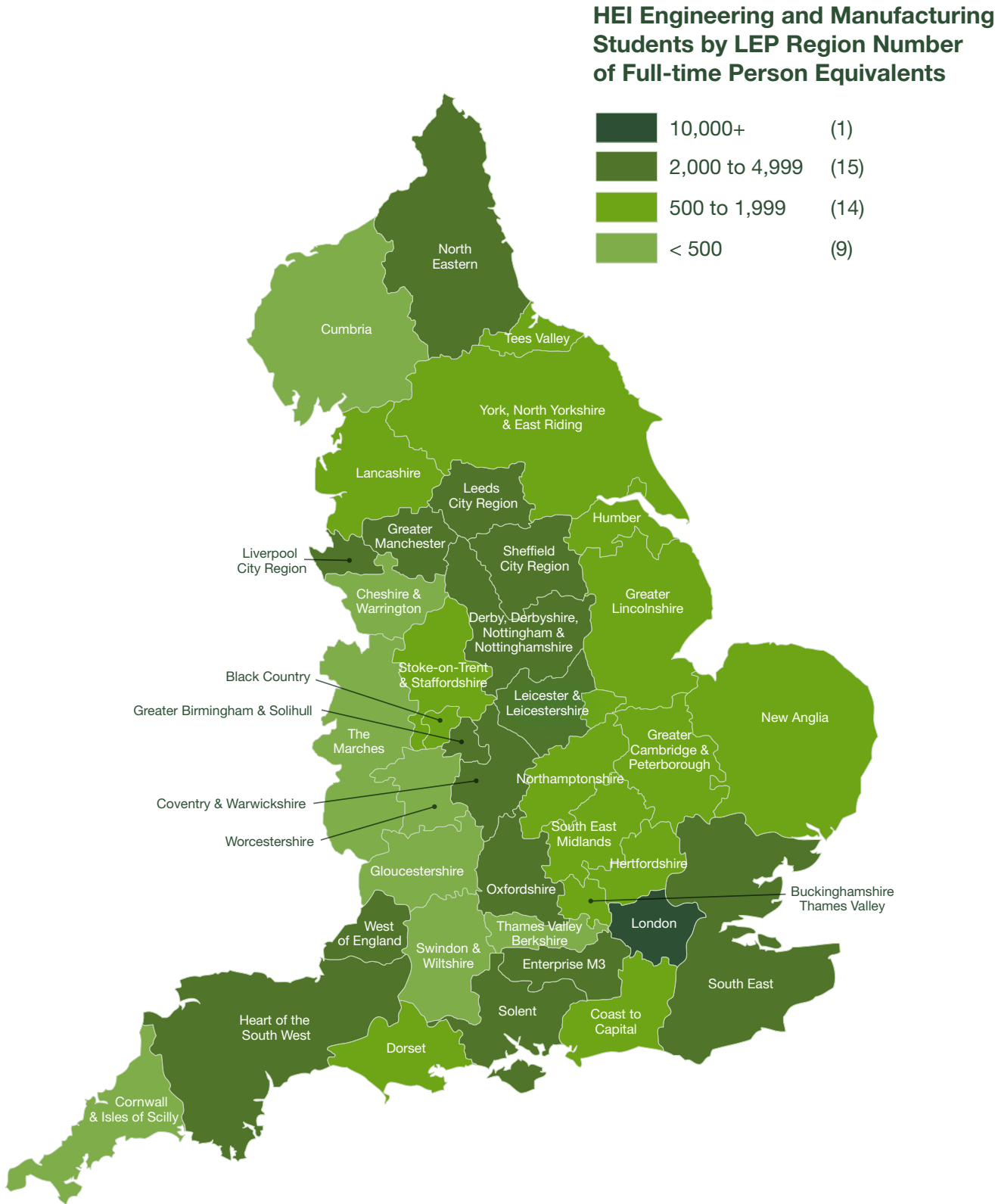
Source: HEFCE/Semta

**Figure 10:** HE Engineering Learners by LEP area



HEFCE/Semta

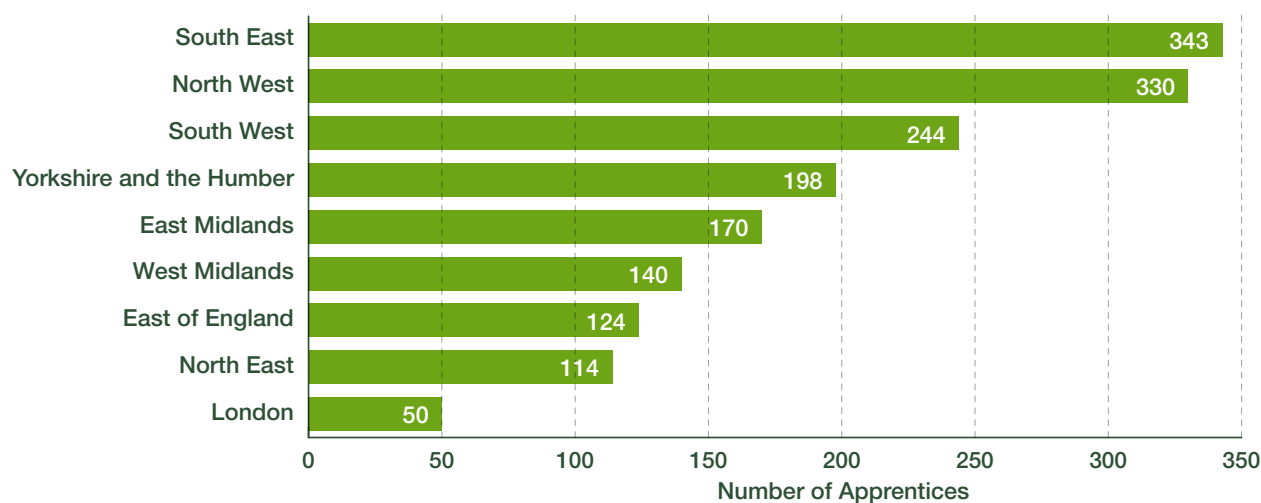
Figure 11: HE Engineering and Manufacturing Learners by LEP area



Source: HEFCE/Semta

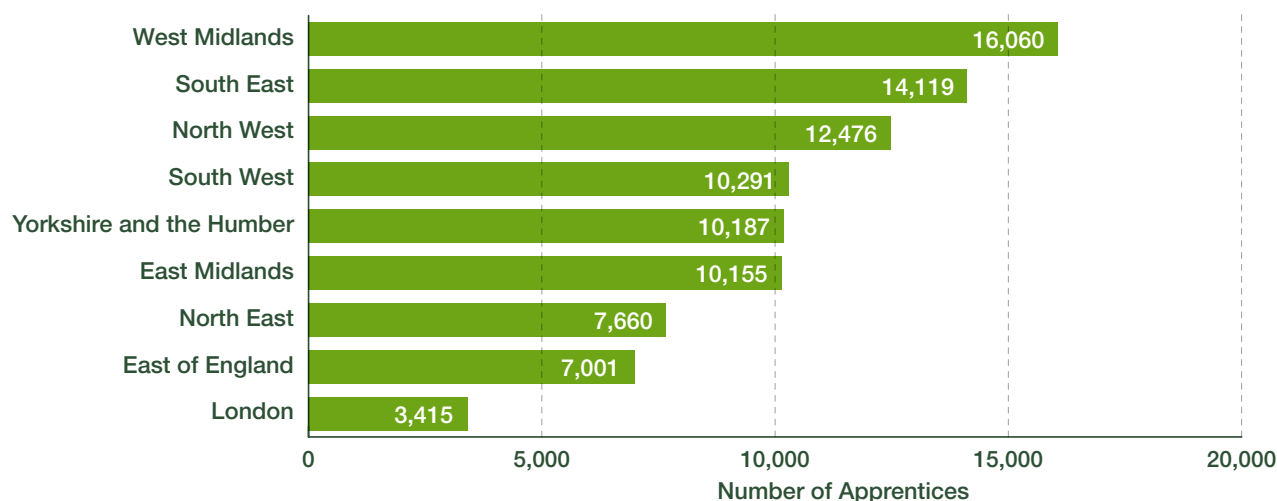
# 3 Apprenticeships

**Chart 3:** Number of Engineering apprentices by Region



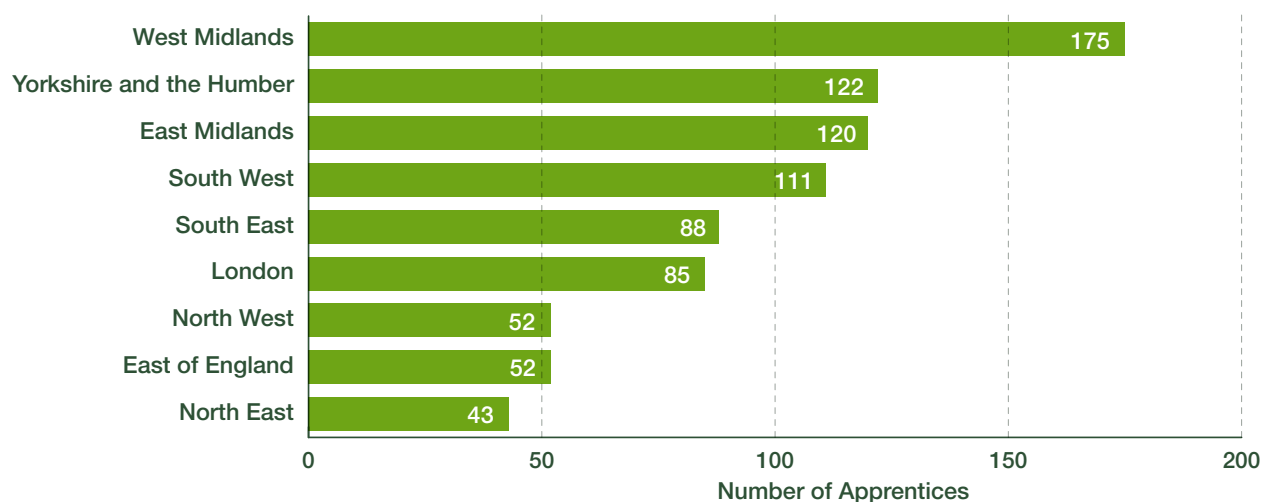
Source: SFA/Semta

**Chart 4:** Number of Manufacturing apprentices by Region



Source: SFA/Semta

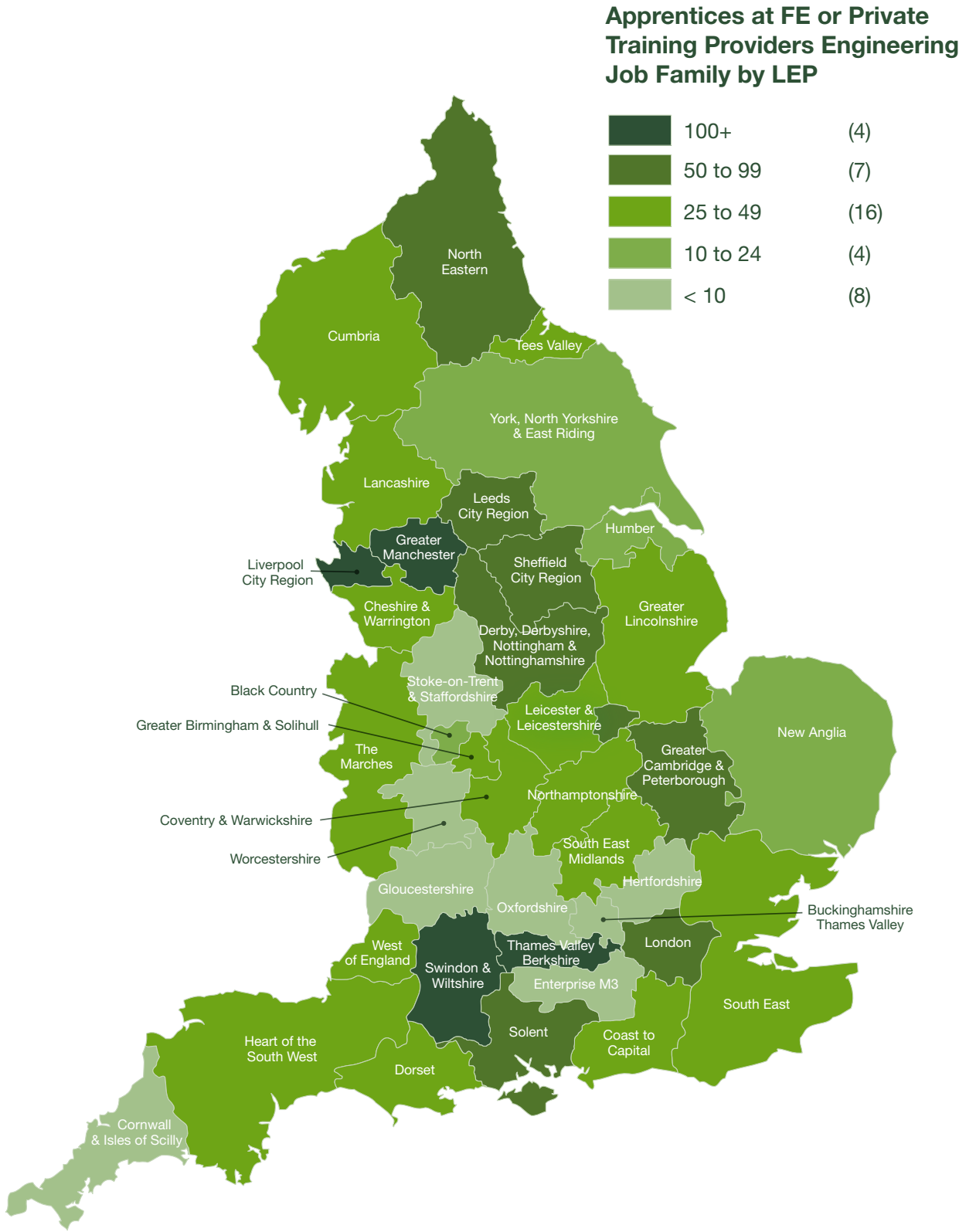
**Chart 5:** Number of Materials Planning and Logistics apprentices by Region



Source: SFA/Semta

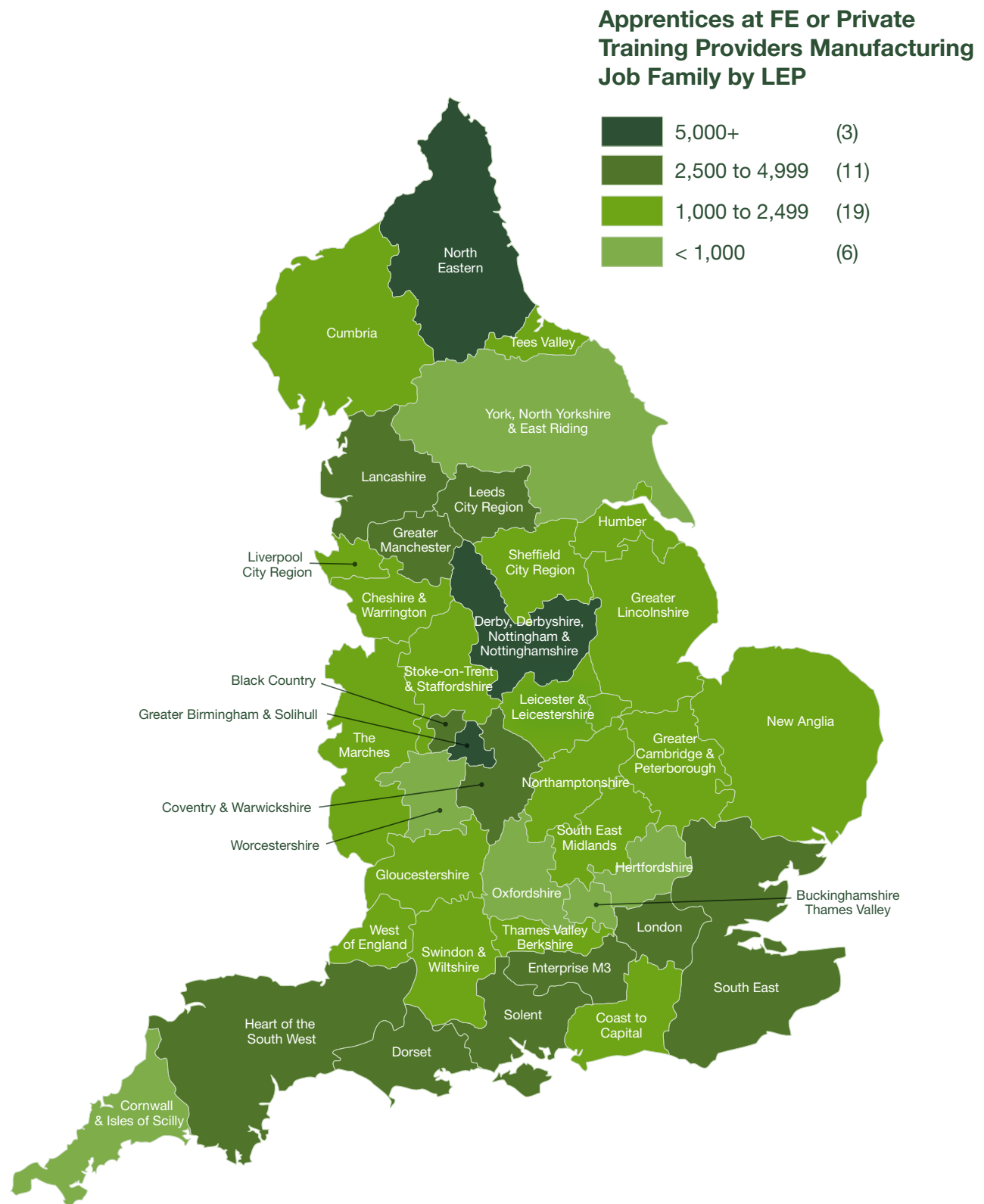


**Figure 12:** Number of Engineering Apprentices by LEP area



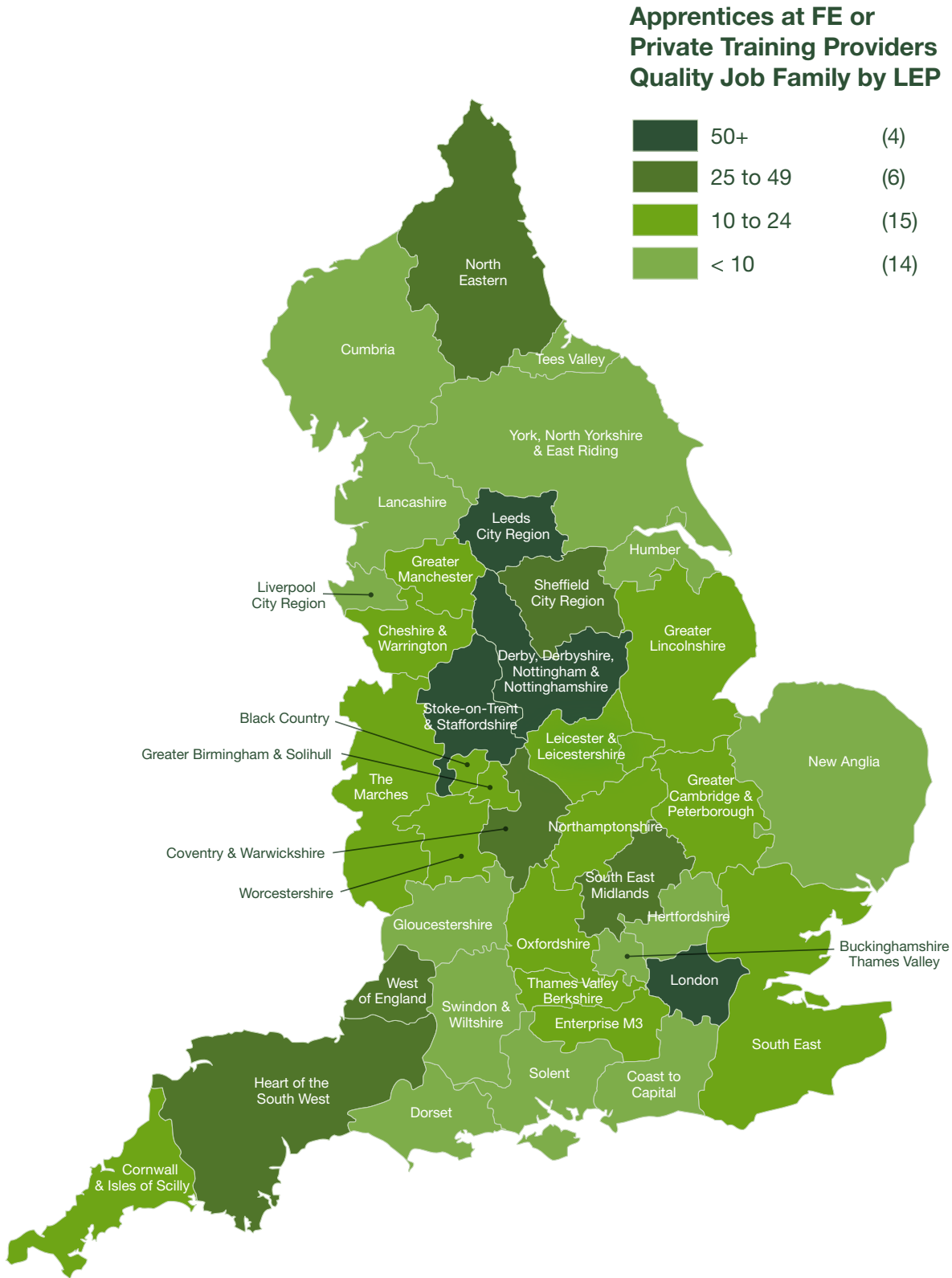
Source: SFA/Semta

**Figure 13:** Number of Manufacturing Apprentices by LEP area



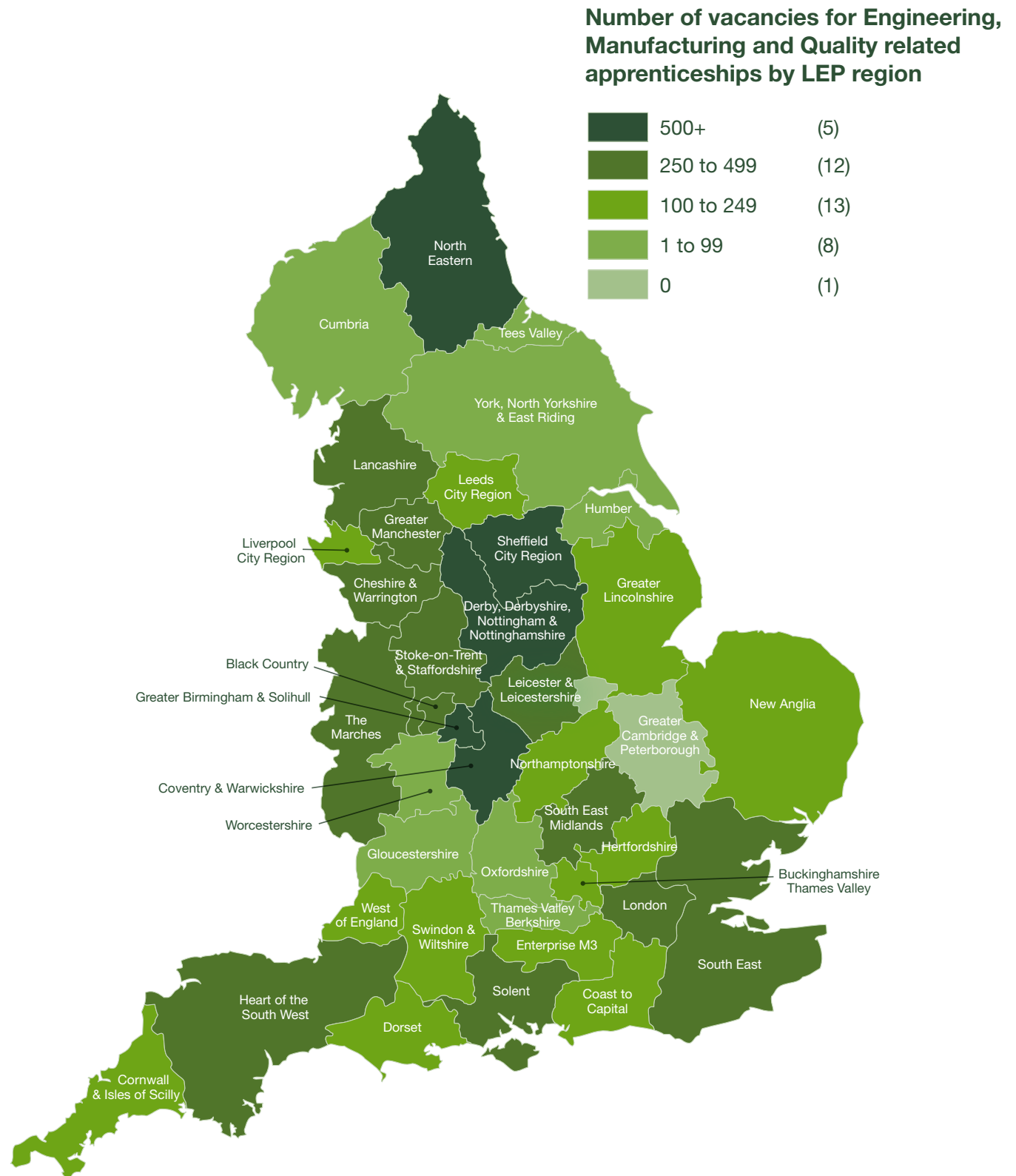
Source: SFA/Semta

**Figure 14:** Number of ‘Quality’ Apprentices by LEP area



Source: SFA/Semta

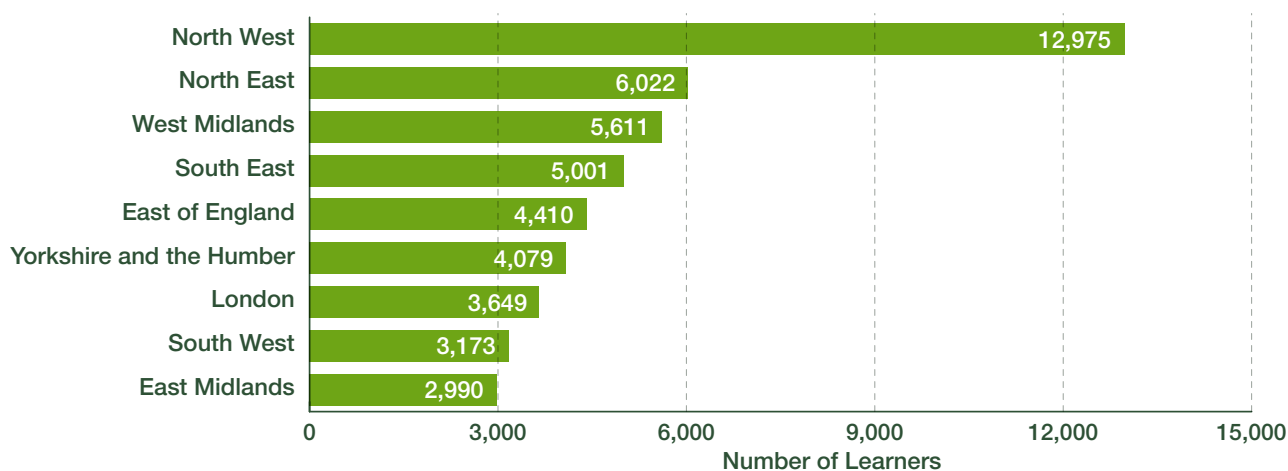
**Figure 15:** Number of vacancies for Engineering, Manufacturing and Quality related apprenticeships by LEP region



Source: NAS/Semta

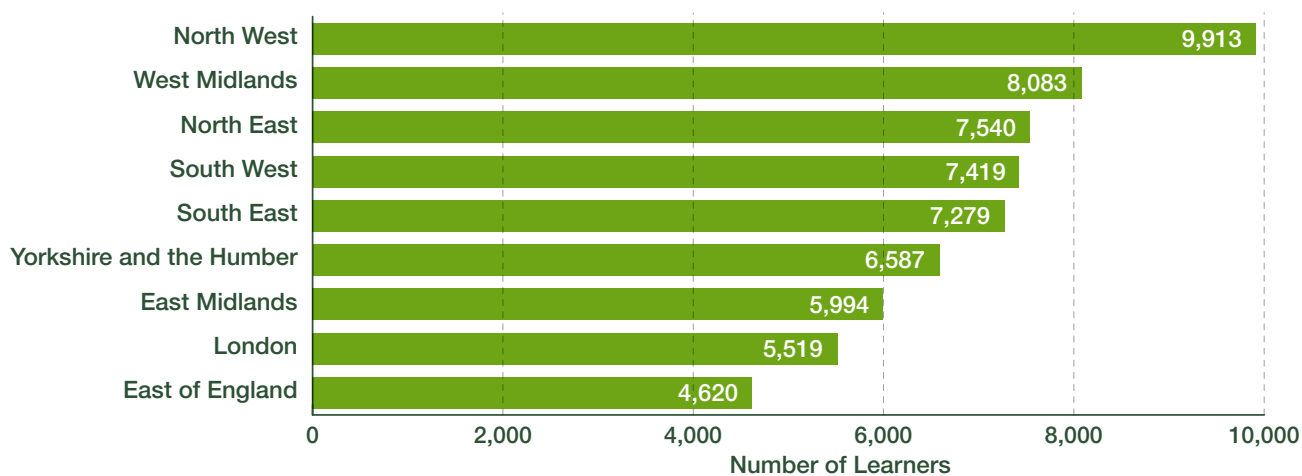
## 4 Other learners at FE and private training providers

**Chart 6:** Number of other Engineering learners by Region



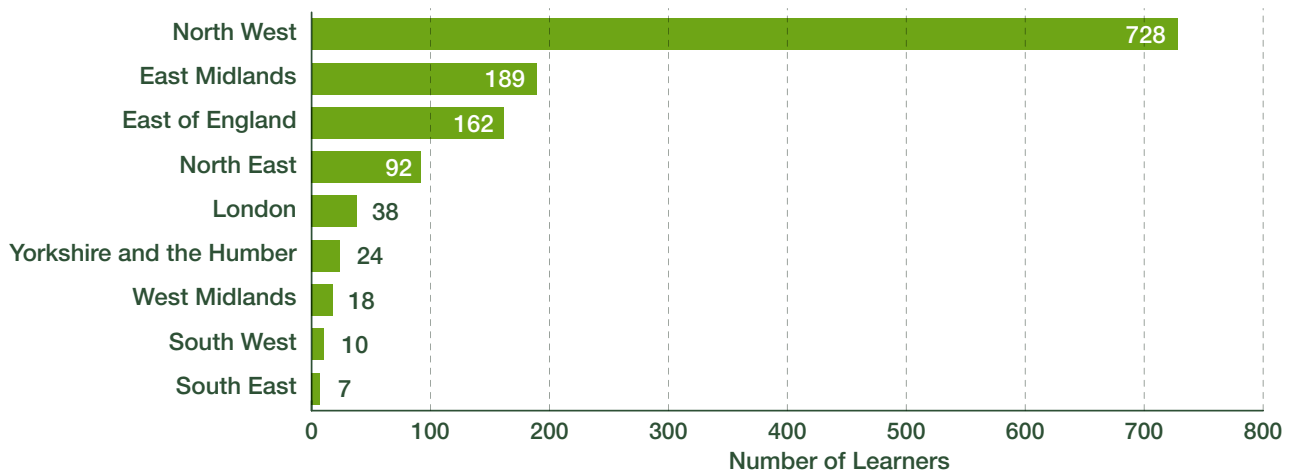
Source: SFA/Semta

**Chart 7:** Number of other Manufacturing learners by Region



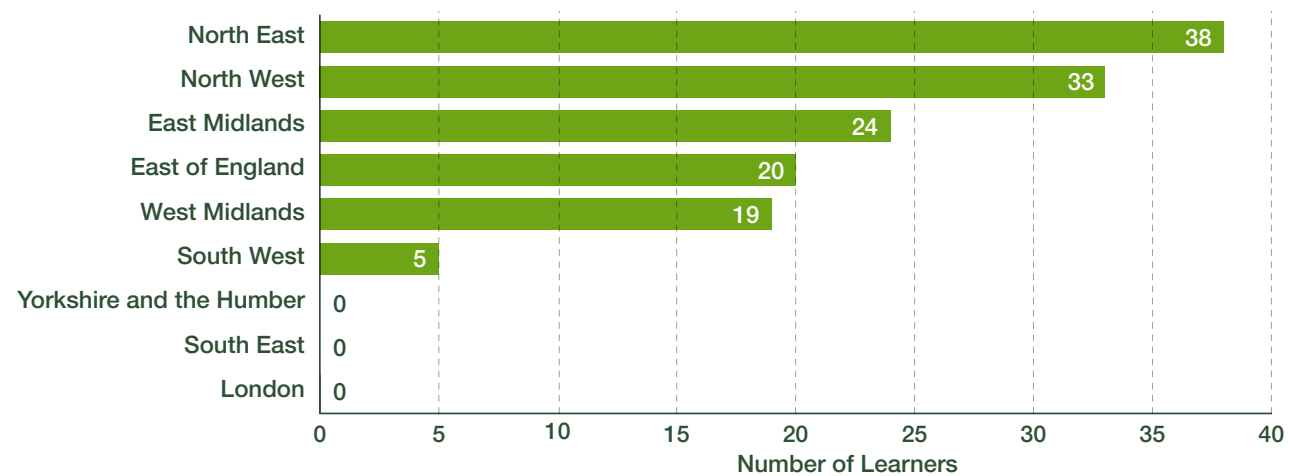
Source: SFA/Semta

**Chart 8:** Number of other Materials Planning and Logistics learners by Region



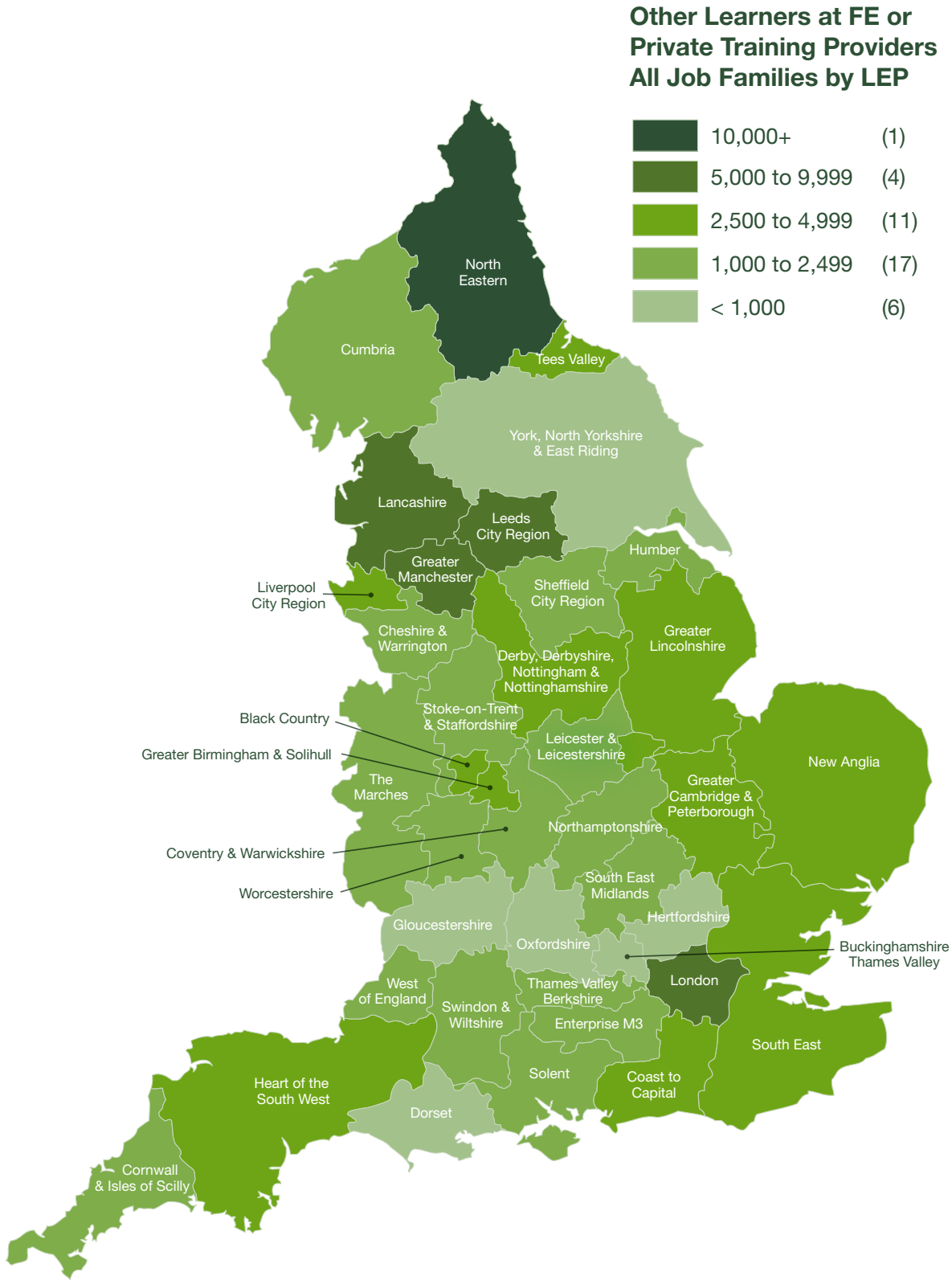
Source: SFA/Semta

**Chart 9:** Number of other 'Quality' learners by Region



Source: SFA/Semta

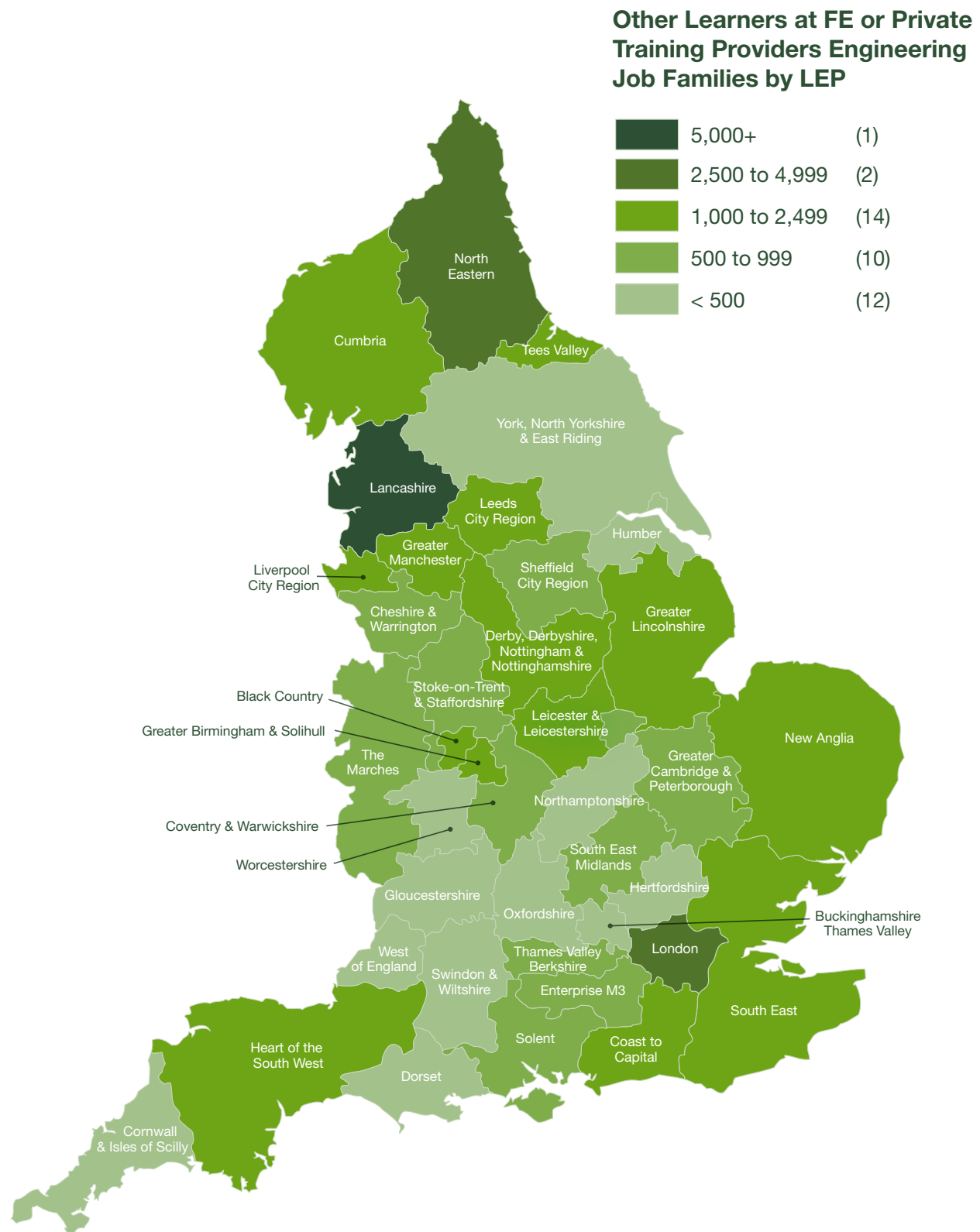
**Figure 16:** Number of other learners at FE and private training providers by LEP area – Engineering, Manufacturing, Materials Planning and Logistics and Quality job families



Source: SFA/Semta

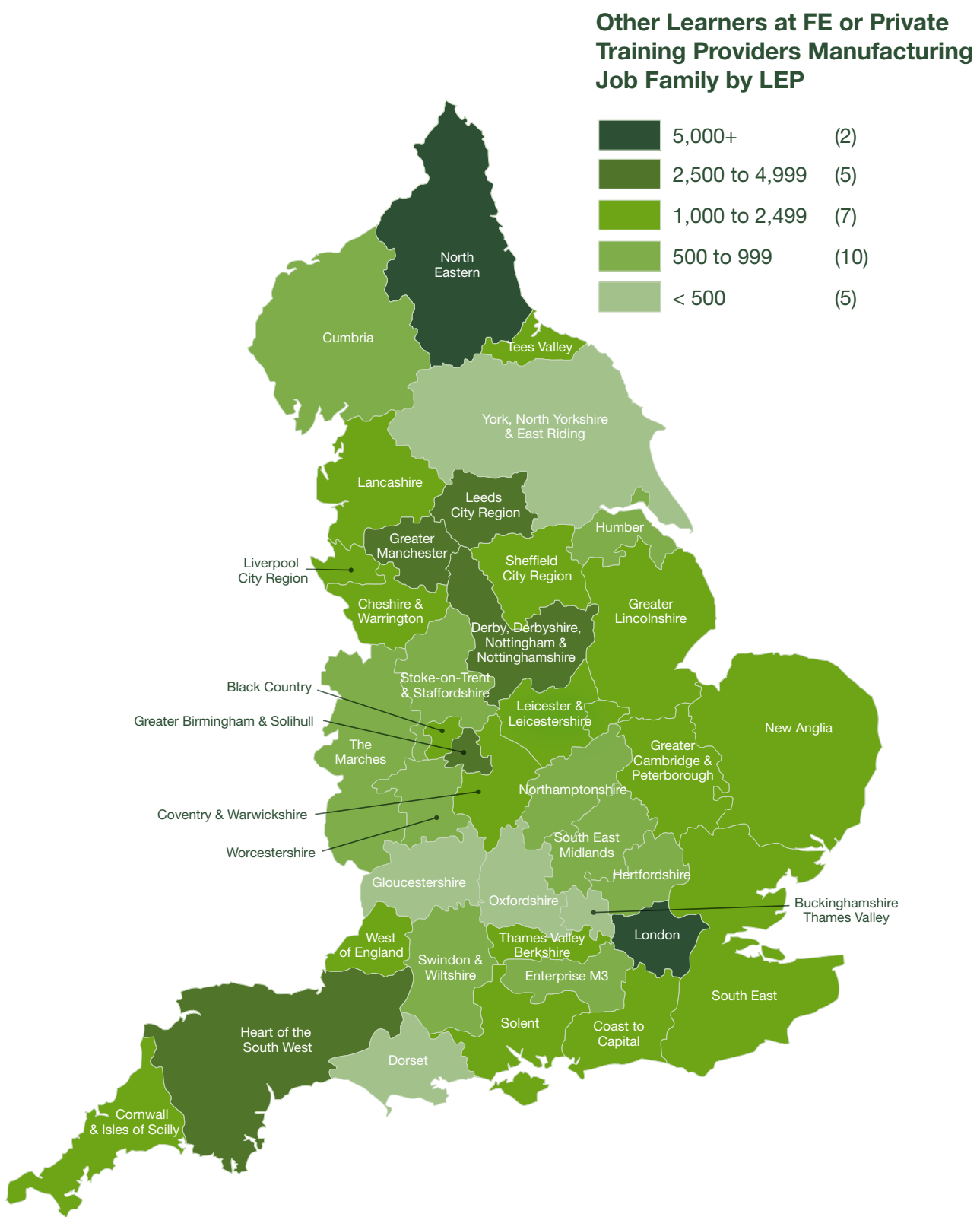


**Figure 17:** Number of other learners at FE and Private Training Providers by LEP area - Engineering job family



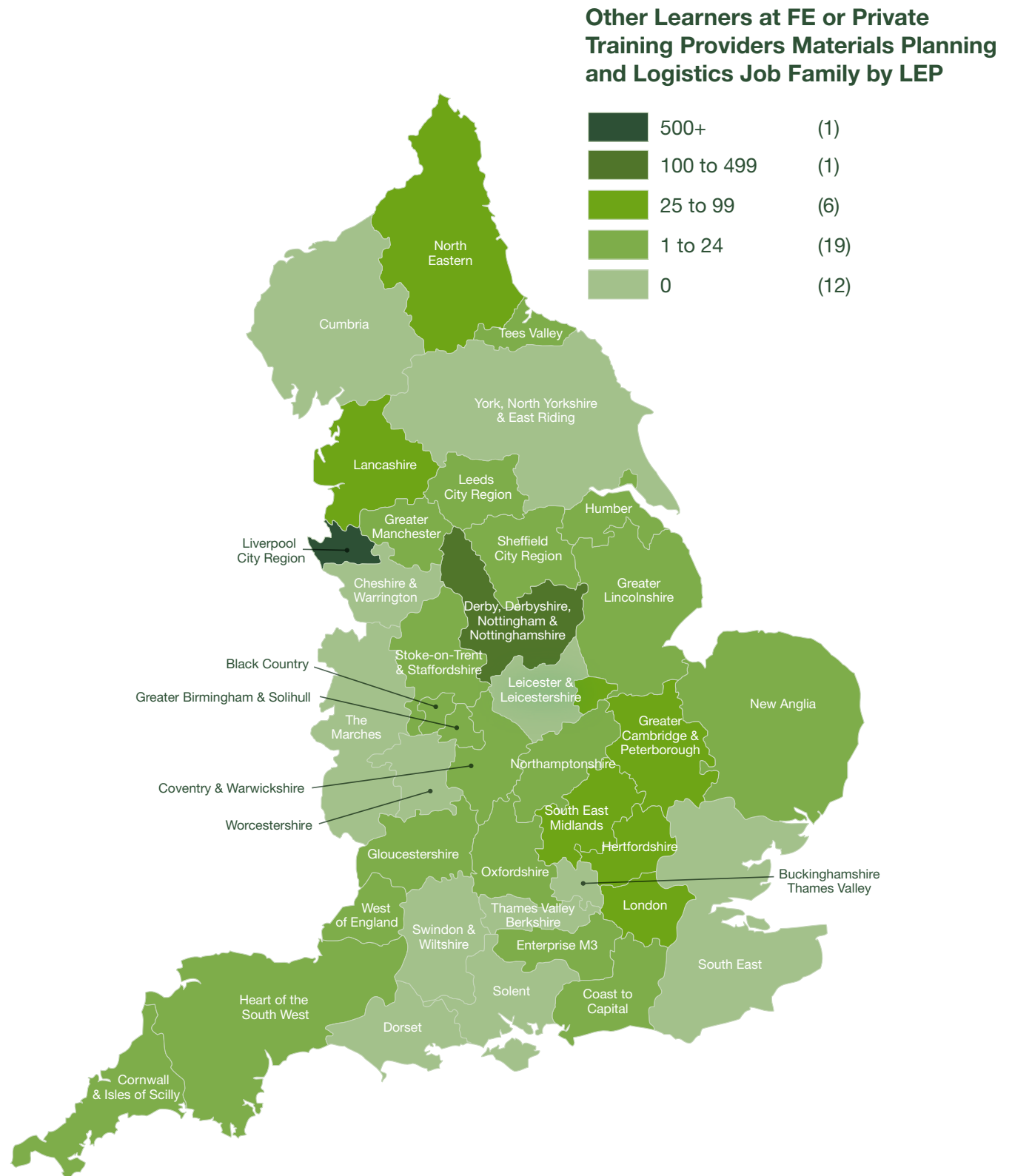
Source: SFA/Semta

**Figure 18:** Number of other learners at FE and Private Training Providers by LEP area – Manufacturing job family



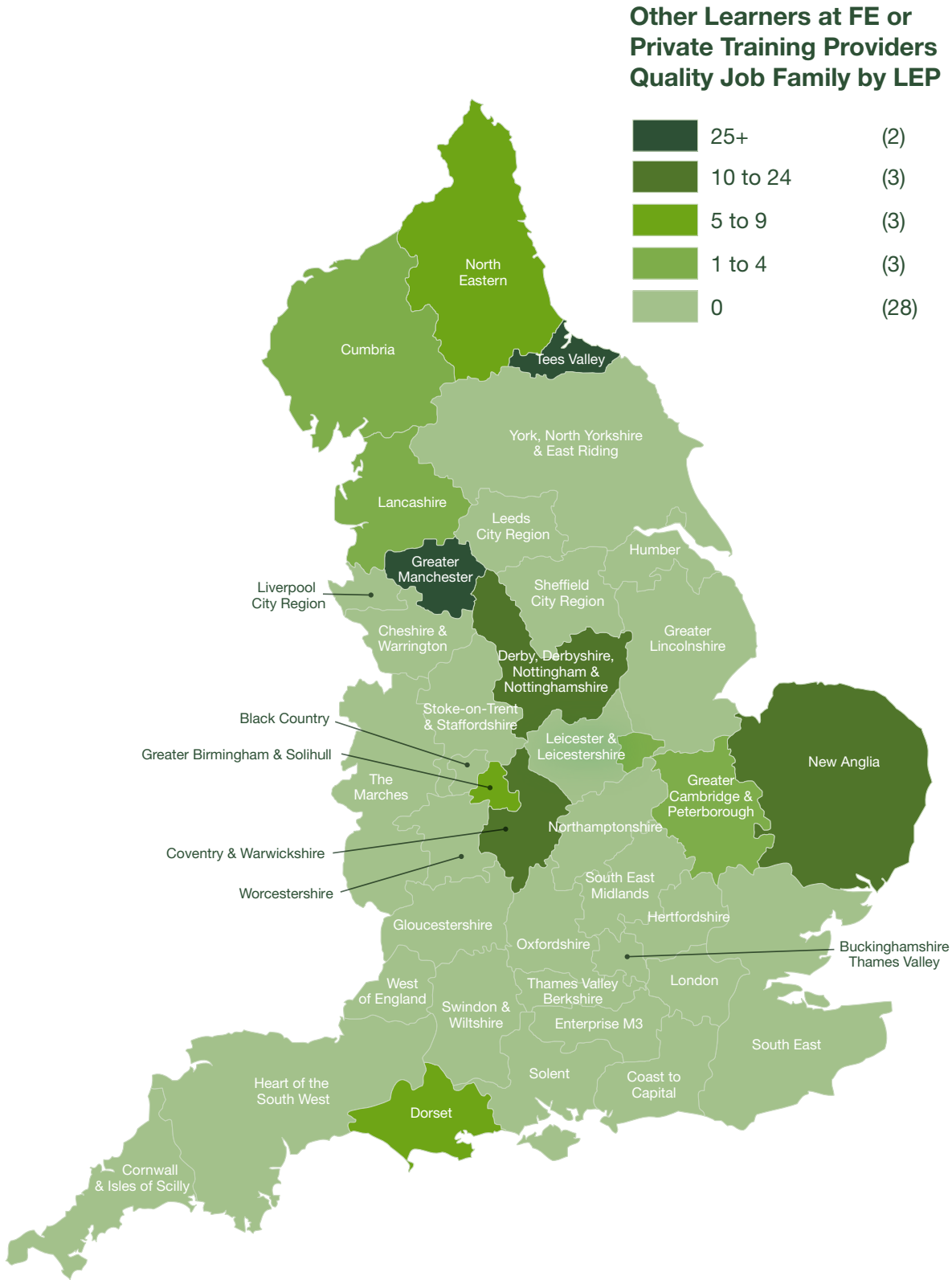
Source: SFA/Semta

**Figure 19:** Number of other learners at FE and Private Training Providers by LEP area –  
Materials Planning and Logistics



Source: SFA/Semta

**Figure 20:** Number of other learners at FE and Private Training Providers by LEP area – Quality job family



Source: SFA/Semta

# 5 Adequacy of training provision

## HE Provision

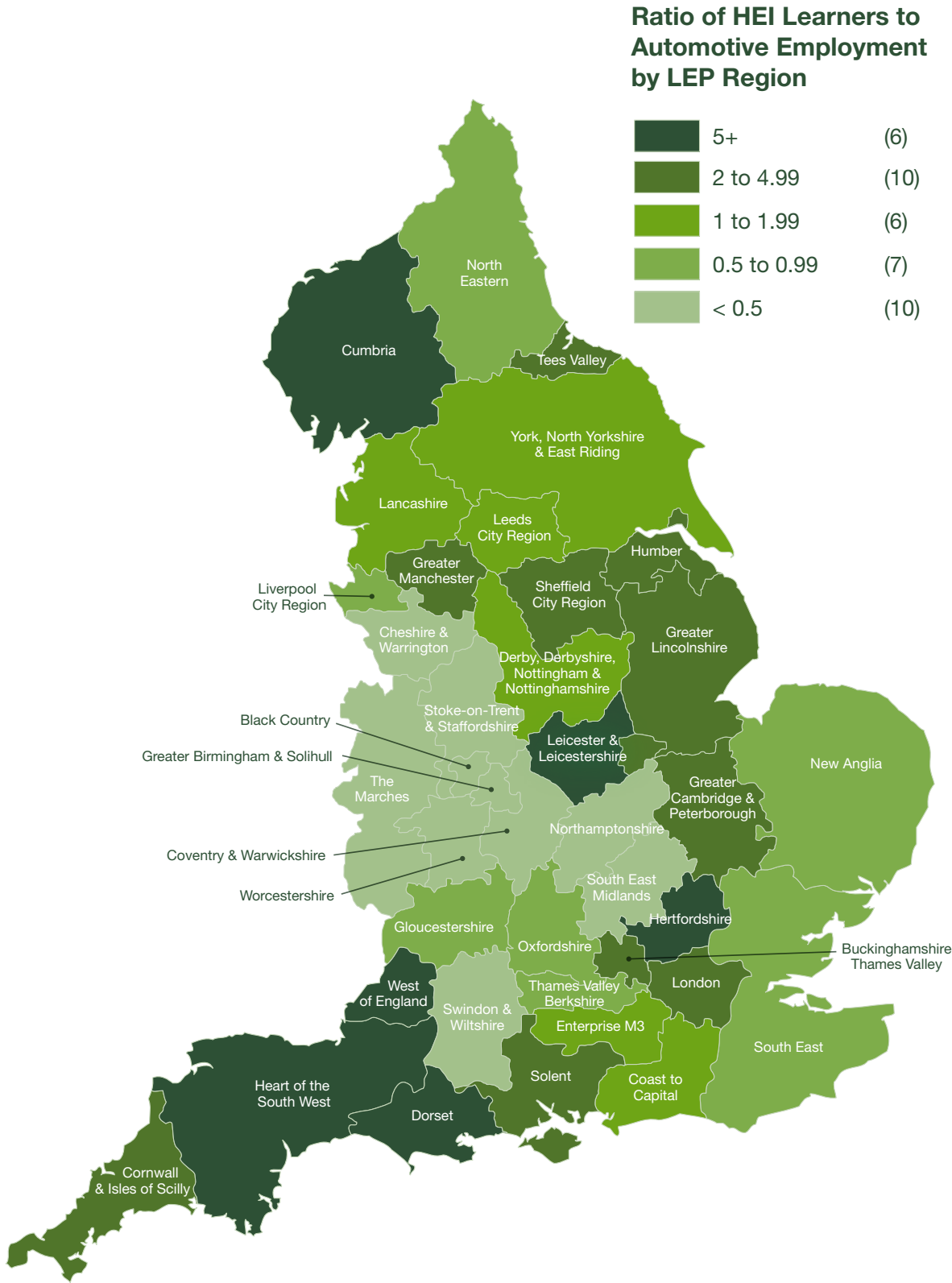
**Table 9: Ratio of Engineering and Manufacturing HE learners to automotive Engineering and Manufacturing employment by region**

Region	Engineering and Manufacturing Employment	Engineering and Manufacturing HEI FPE learners	Ratio of HEI learners to automotive Engineering and Manufacturing employment
East	3,449	3,884	1.1
East Midlands	5,451	8,669	1.6
Greater London	2,892	14,366	5.0
North East	9,455	6,237	0.7
North West	11,074	9,606	0.9
South East	8,728	15,211	1.7
South West	4,831	6,737	1.4
West Midlands	34,433	9,829	0.3
Yorkshire and the Humber	5,572	11,019	2.0
All Regions	85,885	85,558	1.0

In terms of the ratio of HE Manufacturing and Engineering learners to numbers employed in these automotive job families at a sub-regional level (LEP area):

- The highest figures are for Cumbria, Leicester and Leicestershire. This is primarily explained by a relatively low number employed in the automotive sector, rather than a highly developed HE sector serving the industry in these localities. However, the London LEP area has both a significant number employed within the automotive sector and a relatively high HE learner to employment ratio of just under 5.0, indicating a relatively developed automotive HE capacity.
- The lowest figures are for Northamptonshire, Worcestershire, Swindon and Wiltshire and Cheshire and Warrington as well as a number of sub-regions within the West Midlands such as Greater Birmingham and Solihull, Coventry and Warwickshire and Black Country, indicating relatively poorly developed HE capacity relative to numbers employed in the sector locally.

**Figure 21:** Ratio of HE Manufacturing and Engineering learners to numbers employed in these automotive job families by LEP area



Source: HEFCE/ Senta Local Automotive Employment Model

## Apprenticeship Provision

**Table 10: Ratio of Engineering, Manufacturing, Quality and Materials Planning and Logistics apprentices to numbers employed in these automotive Job Families**

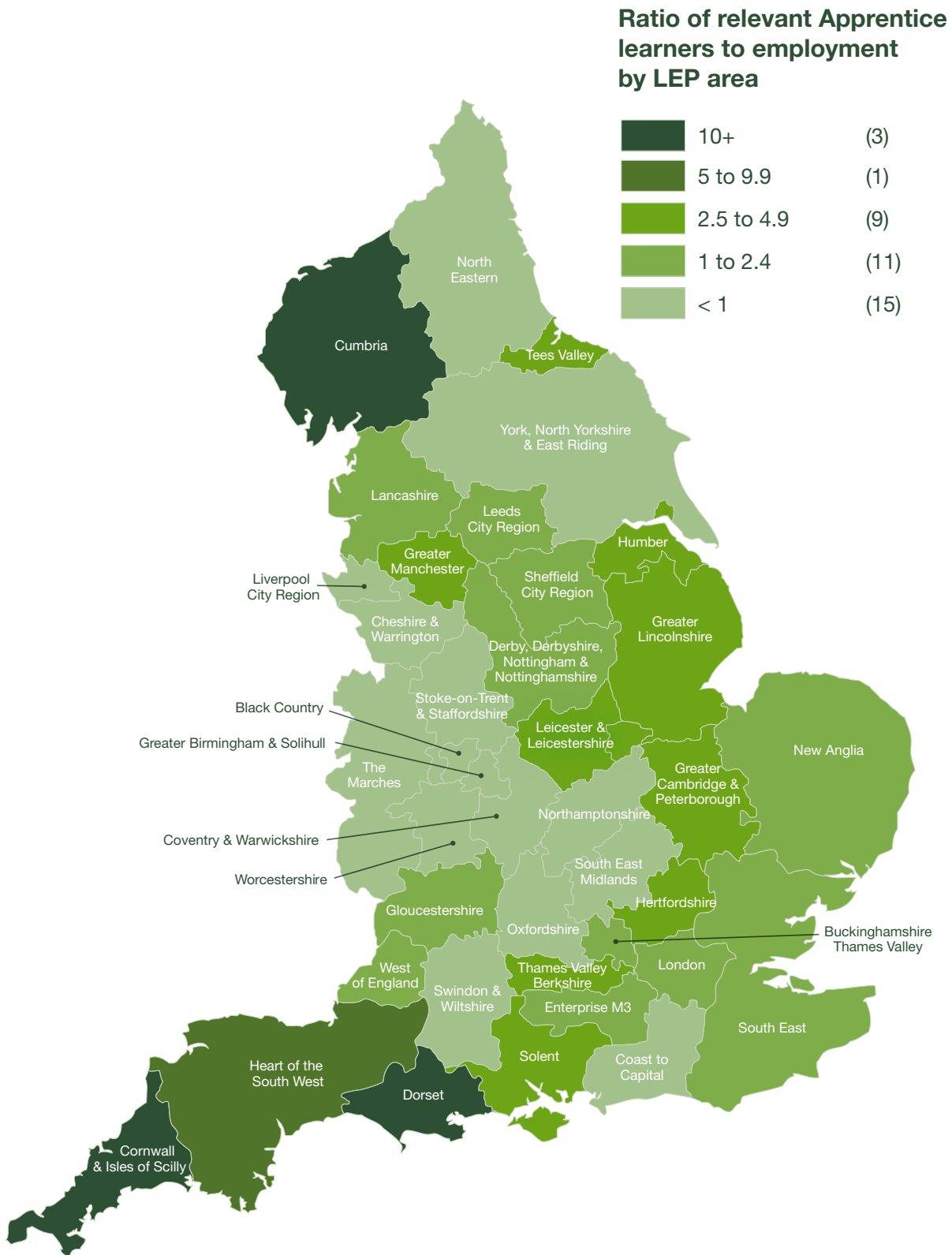
Region	Numbers employed	Numbers of learners	Ratio of learners to numbers employed
East Midlands	6,695	10,451	1.6
East of England	4,258	7,177	1.7
London	3,587	3,551	1.0
North East	11,628	7,819	0.7
North West	13,683	12,867	0.9
South East	10,759	14,550	1.4
South West	5,940	10,646	1.8
West Midlands	42,305	16,378	0.4
Yorkshire and the Humber	6,830	10,509	1.5
All Regions	105,687	93,948	0.9

In terms of the ratio of Engineering, Manufacturing, Materials Planning and Logistics and Quality apprentices to numbers employed in these job families at an LEP area level:

- The highest figures are for LEP areas with relatively low automotive sector employment e.g. Cumbria, Cornwall and the Isles of Scilly and Dorset. Of more significance are the LEP areas of Greater Manchester and Solent, both with more than 1,000 automotive sector employees and a relatively high apprenticeship to employment ratio, pointing to a well-developed local automotive apprenticeship infrastructure.
- The lowest figures are for Coventry and Warwickshire, Worcestershire, Oxfordshire, Northamptonshire, Cheshire and Warrington and Swindon and Wiltshire. All these areas have more than 2,000 automotive sector employees and a low apprenticeship to employment ratio, indicating a relatively poorly developed local automotive apprenticeship infrastructure relative to automotive employment locally. This is particularly evident for Greater Birmingham and Solihull and Coventry and Warwickshire, given the scale of automotive employment within these two localities.



**Figure 22:** Ratio of relevant Apprentice learners to employment by LEP area



Source: SFA/Semta Local Automotive Employment Model

## FE and Private Training Provision

**Table 11: Ratio of non-apprentice FE and private training provision automotive related learners to employment by region**

Region	Numbers employed	Numbers of learners	Ratio of learners to numbers employed
East Midlands	6,695	9,197	1.4
East of England	4,258	9,212	2.2
London	3,587	9,206	2.6
North East	11,628	13,692	1.2
North West	13,683	23,649	1.7
South East	10,759	12,287	1.1
South West	5,940	10,607	1.8
West Midlands	42,305	13,731	0.3
Yorkshire and the Humber	6,830	10,690	1.6
All Regions	105,687	112,271	1.1

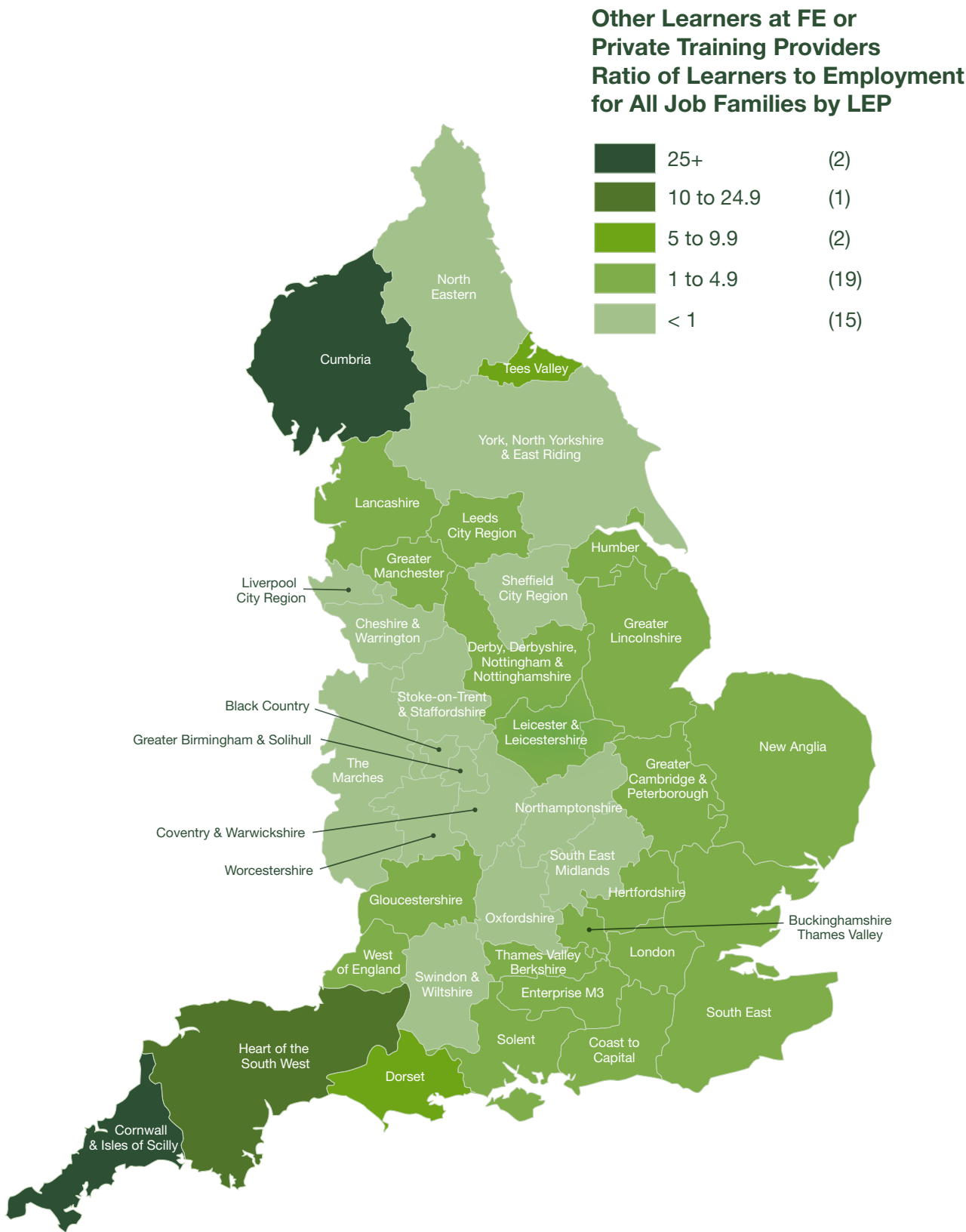
Source: SFA/Semta Local Automotive Employment Model

In terms of the ratio of Engineering, Manufacturing, Materials Planning and Logistics and Quality FE and other non-apprentice learners to numbers employed in these automotive job families at an LEP area level is:

- Highest in terms of those LEP areas with a significant number of automotive sector employment (more than 1,000 employed) in the LEP areas of Greater Manchester and Lancashire, both areas with learner/employment ratios of 5.0.
- Lowest in the LEP areas of York, North Yorkshire and East Riding, Coventry and Warwickshire, Swindon and Wilshire, Worcestershire, Oxfordshire and Greater Birmingham and Solihull, all with significant concentration of automotive employment, but a ratio of FE and other automotive learners to employment of less than 0.5. This is again particularly evident for Greater Birmingham and Solihull and Coventry and Warwickshire, given the scale of automotive employment within these localities, pointing to a poorly developed non-apprentice training infrastructure relative to the scale of local demand.

**Note:** The figures are based on numbers of learners undertaking training relevant to the automotive Engineering, Manufacturing, Materials Planning and Logistics and Quality job families as a proportion of those employed in these job families.

**Figure 23:** Ratio of FE and other automotive learners to employment by LEP area



Source: SFA Senta Local Automotive Employment Model

## FE and Private Training Provision

**Table 12: Ratio of apprentices in FE and private training provision relative to all automotive related learners by region**

Region	Numbers employed in Engineering, Manufacturing, Materials Planning and Logistics and Quality automotive job families	Total numbers of relevant learners	Ratio of learners to numbers employed
East Midlands	6,695	23,532	3.5
East of England	4,258	25,058	5.9
London	3,587	27,123	7.6
North East	11,628	27,748	2.4
North West	13,683	46,122	3.4
South East	10,759	42,048	3.9
South West	5,940	27,990	4.7
West Midlands	42,305	39,938	0.9
Yorkshire and the Humber	6,830	32,218	4.7
All Regions	105,687	291,777	2.8

Source: HEFCE, SFA/Semta Local Automotive Employment Model

### All Learners at FE, Private Training Providers & HE All Job Families by LEP

Legend:

- 15,000 (4)
- 10,000 to 14,999 (6)
- 5,000 to 9,999 (12)
- 2,500 to 4,999 (13)
- < 2,500 (4)

Regions and LEAs shown on the map:

- North Eastern
- Cumbria
- Tees Valley
- York, North Yorkshire & East Riding
- Lancashire
- Leeds City Region
- Humber
- Greater Manchester
- Liverpool City Region
- Sheffield City Region
- Cheshire & Warrington
- Derby, Derbyshire, Nottingham & Nottinghamshire
- Greater Lincolnshire
- Black Country
- Stoke-on-Trent & Staffordshire
- Leicester & Leicestershire
- Greater Cambridge & Peterborough
- New Anglia
- The Marches
- Coventry & Warwickshire
- Worcestershire
- Northamptonshire
- South East Midlands
- Hertfordshire
- Buckinghamshire Thames Valley
- Gloucestershire
- Oxfordshire
- London
- Enterprise M3
- Thames Valley Berkshire
- Swindon & Wiltshire
- West of England
- South East
- Heart of the South West
- Solent
- Coast to Capital
- Dorset
- Cornwall & Isles of Scilly

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## 6 Acknowledgements

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Semta brings together more than 146,000 companies to deliver skills to the UK's world class advanced manufacturing and engineering sector. With over 50 years experience, our expertise makes us the go-to organisation for ensuring national occupational standards and apprenticeship frameworks are fit-for-purpose.

Employer-led and not-for-profit, Semta is uniquely placed to bring together industry, education and government to ensure those training and working in the sector are equipped with the skills to succeed.

Semta's insight and understanding of advanced manufacturing and engineering means it is trusted to gather the views of employers, shape policy and lobby for its implementation. It also creates partnerships to keep the talent pipeline flowing - a vital role as the UK needs 160,000 new engineers every year until 2020.

**Semta,**  
Unit 2, The Orient Centre,  
Greycaine Road,  
Watford, WD24 7GP

**Telephone:** 0845 643 9001  
**Email:** [customerservices@semta.org.uk](mailto:customerservices@semta.org.uk)  
**Website:** [www.semta.org.uk](http://www.semta.org.uk)  
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