

**The  
Alan Turing  
Institute**



# **Developing a resilient Artificial Intelligence profession: observations from the UK's skills landscape**

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**Bucharest, Romania**

**Wednesday 28th February 2024**



# 80% of 2030's workforce are already in employment

Industrial Strategy Council (2019), UK Skills Mismatch 2030 Report





**59% (c.23.4 million) of the UK labour force is not meeting its full potential in terms of harnessing digital skills, including interacting with AI.**

FutureDotNow (2022)



**70% of 1.5 million roles at risk of automation are held by women**

Office for National Statistics, 2019

# Few UK adults believe AI will create far more new jobs than it loses, and most support government action to prevent job losses – although nearly half still think business should make use of AI where it saves time and resources

To what extent do you agree or disagree with the following statements about the use of AI in the workplace?



**The government should create new regulations or laws to prevent the potential loss of jobs due to AI**



**Businesses should embrace AI in the workplace if it saves time and resources**



**AI will create far more new job opportunities than the jobs that are lost**



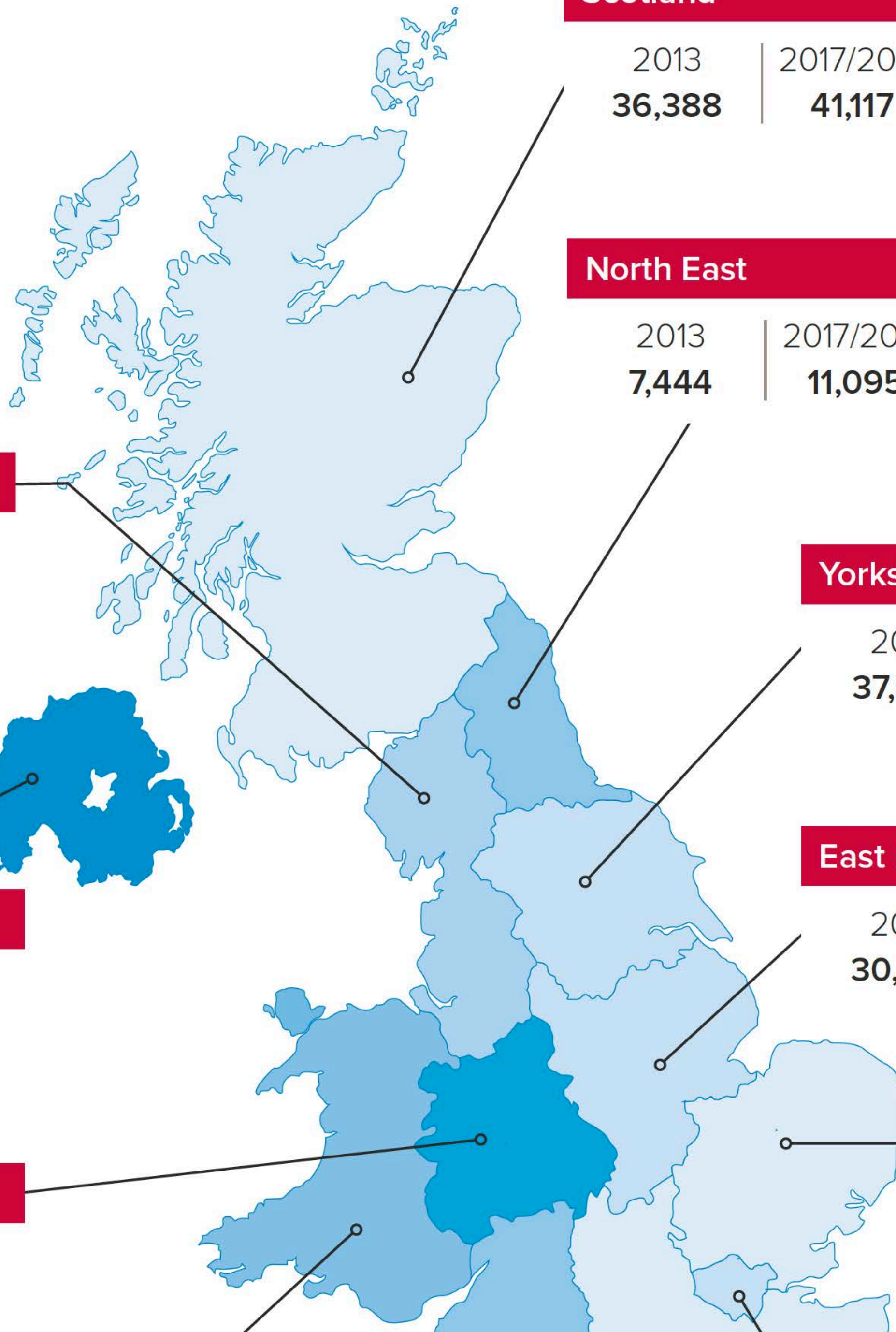
Base: 5,450 Online UK adults aged 16+, 1-7 June 2023



2013 | 2017/2018  
736,611 | 996,262



Growth since 2013



### Scotland

2013 | 2017/2018  
36,388 | 41,117 ↑ 13%

### North East

2013 | 2017/2018  
7,444 | 11,095 ↑ 49%

### North West

2013 | 2017/2018  
45,286 | 61,871 ↑ 37%

### Yorkshire and the Humber

2013 | 2017/2018  
37,885 | 47,014 ↑ 24%

### Northern Ireland

2013 | 2017/2018  
4,987 | 11,902 ↑ 139%

### East Midlands

2013 | 2017/2018  
30,957 | 37,743 ↑ 22%

### West Midlands

2013 | 2017/2018  
41,771 | 86,563 ↑ 107%

### East of England

2013 | 2017/2018  
53,295 | 61,725 ↑ 16%



Quantifying the UK Data Skills Gap



CODE OF ETHICAL BEHAVIOR



∞

**DAYS WITHOUT  
DISCRIMINATORY AI**





The Alan Turing Institute:  
**Supporting the  
Skills Ecosystem**

# Accreditation and professionalisation of the data science occupation





The Alan Turing Institute

ROYAL STATISTICAL SOCIETY  
DATA | EVIDENCE | DECISIONS

BCS  
The Chartered Institute for IT

Institute of mathematics & its applications

OR THE OPERATIONAL RESEARCH SOCIETY

NPL National Physical Laboratory

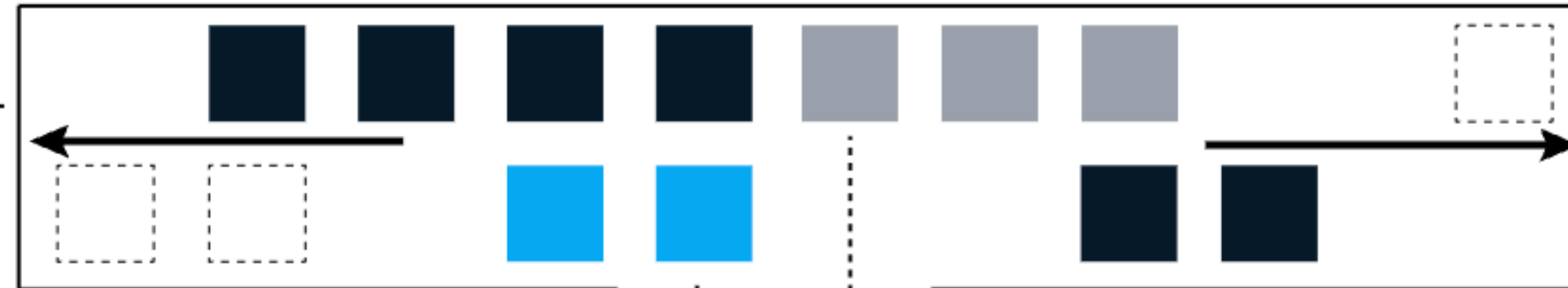
Royal Academy of Engineering

THE ROYAL SOCIETY



# AI Skills for Business Competency Framework

Breadth of essential skills



National AI Strategy Commitment: *“Publish research into what skills are needed to enable employee to use AI in a business and identify how national skills provision can meet these needs.”*



- Personal skills
- Functional skills
- Industry specific

Depth of expertise

# Supporting the Skills Ecosystem

- **Data Skills Taskforce:** convening industry, academia, government and the public sector to bring strategic alignment around the data skills gap.
- **Data Science and AI Educators' Programme:** 12-week course in evidence-based pedagogy.
- **Funding Calls for Open Source Curricula and Online Learning Platform:** Commissioning training in areas of identified need.



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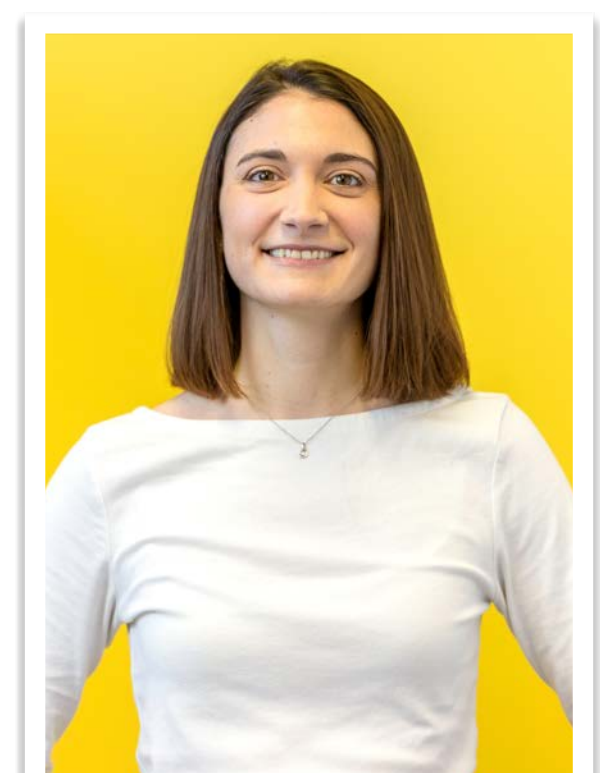
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