



Report Findings



Henri Egle Sorotos

Senior Insights Manager, Tech Nation
@TechNation

Report 2018

Connection and collaboration: powering UK
tech and driving the economy

1. International competitiveness

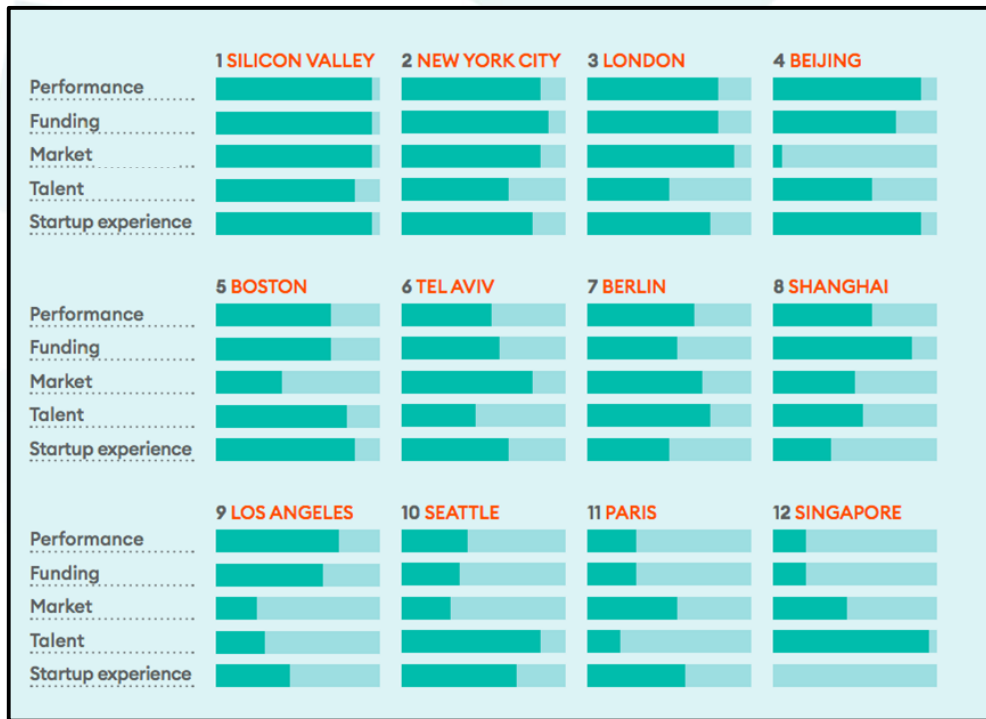
The UK cements its position as a global tech leader

LONDON SECURES ITS POSITION AS 3RD GLOBAL TECH STARTUP ECOSYSTEM

In London 33% of tech company customers are based outside the UK, compared to 30% in Silicon Valley and 7% in Beijing.

Performance of the top 12 global tech startup ecosystems

Source: Startup Genome, 2017



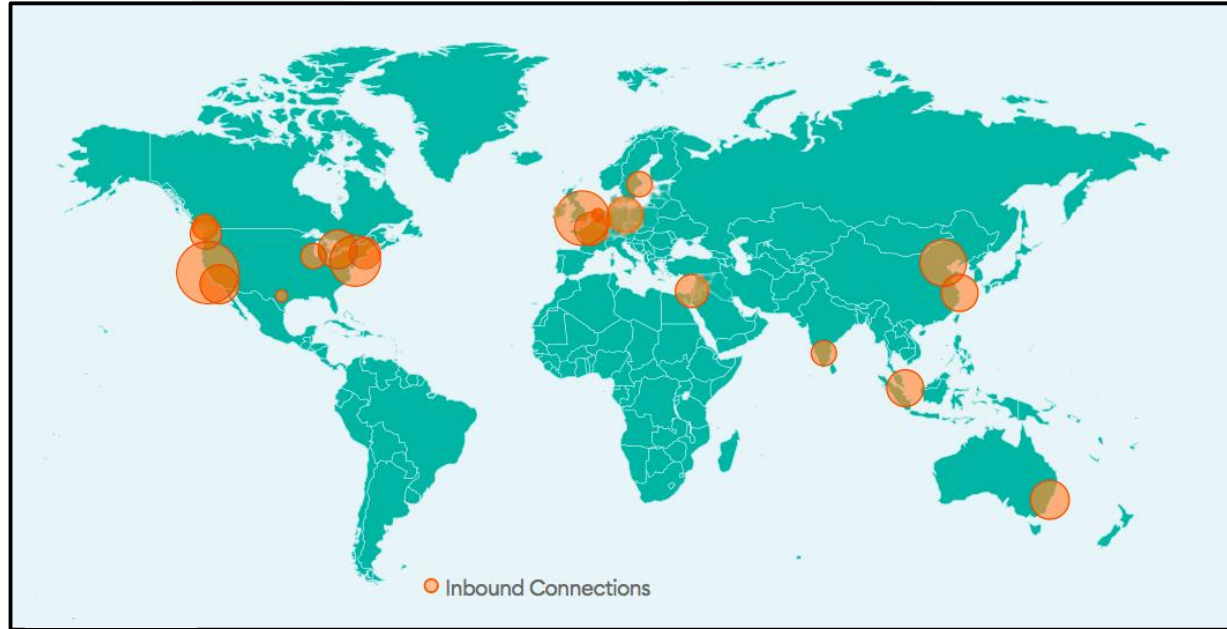
Global connections are key to domestic success

LONDON IS THE SECOND MOST CONNECTED ECOSYSTEM IN THE WORLD

25% of the world's entrepreneurs report a significant relationship with two or more others based in London, a figure beaten only by Silicon Valley.

Inbound connections for the top 20 global tech ecosystems

Source: Startup Genome, 2017



Recommendation

Get support, go international

2. Digital tech business

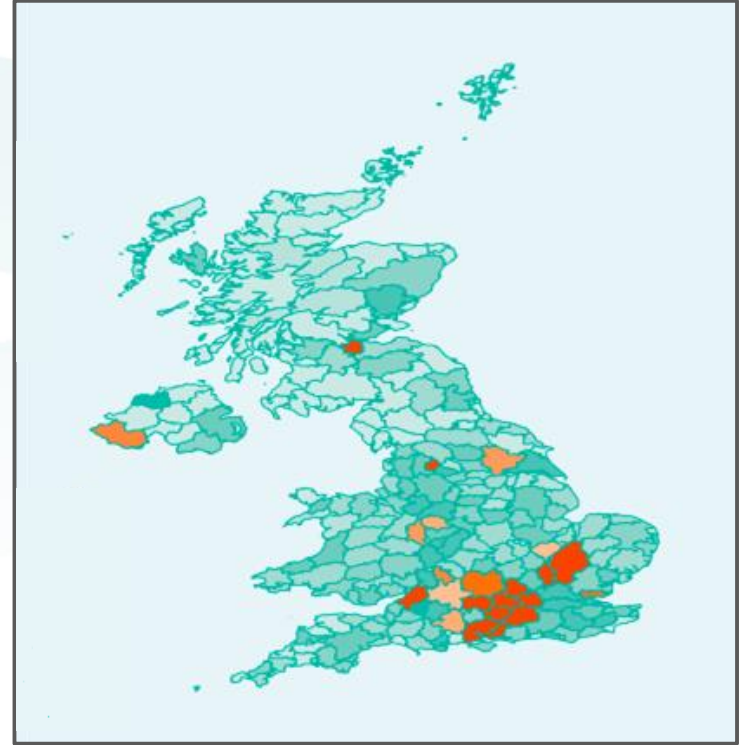
The UK has digital suburbs, not just cities

DIGITAL SUBURBS UNCOVERED ACROSS THE UK

London's digital density is below the UK average at 0.92, while Newbury at 15.5 is the most tech specialised local economy in the UK.

Digital tech density in Travel
to Work Areas across the UK

Source: Tech Nation, 2018;
ONS, Business Structure
Database, 2017



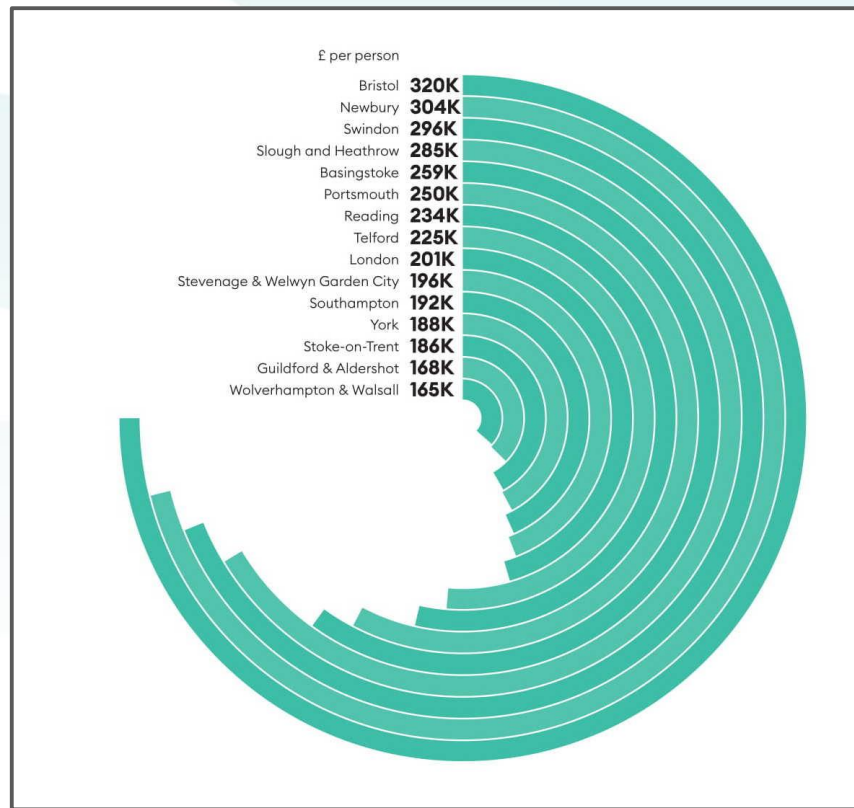
Digital tech hotspots have high productivity

BRISTOL TOPS PRODUCTIVITY OF LOCAL TECH ECOSYSTEMS

There is a productivity power path from London to the mouth of the River Severn, running along the M4 corridor and spreading to Southampton and Portsmouth

Productivity (£ per person), turnover by employee for the top 15 UK Travel to Work Areas

Source: ONS Business Structure Database, 2017



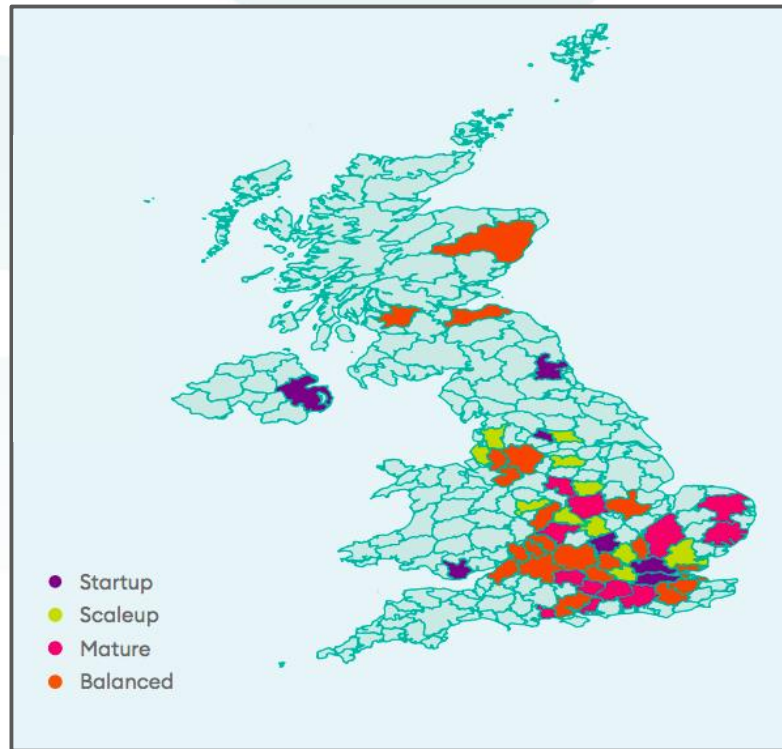
Healthy mix of growth stages across the UK

A HIGH PROPORTION OF CLUSTERS WITH A BALANCE OF COMPANY GROWTH STAGES SUGGESTS A HEALTHY UK ECOSYSTEM

Call The highest proportion of clusters (36%) emerged as balanced ecosystems, 26% are scaleup dominant, and 12% startup dominant

Age distribution of companies in Travel to Work Areas across the UK

Source: Tech Nation, 2018;
ONS, Business Structure
Database, 2000-2016



Recommendation

Engage with corporates in new ways

3. Community perceptions

Access to talent and investment continue to challenge tech communities across the UK

KEY CHALLENGES PERCEIVED BY THE LOCAL TECH COMMUNITY

In 83% of clusters, the tech community cited access to talent as their biggest challenge.

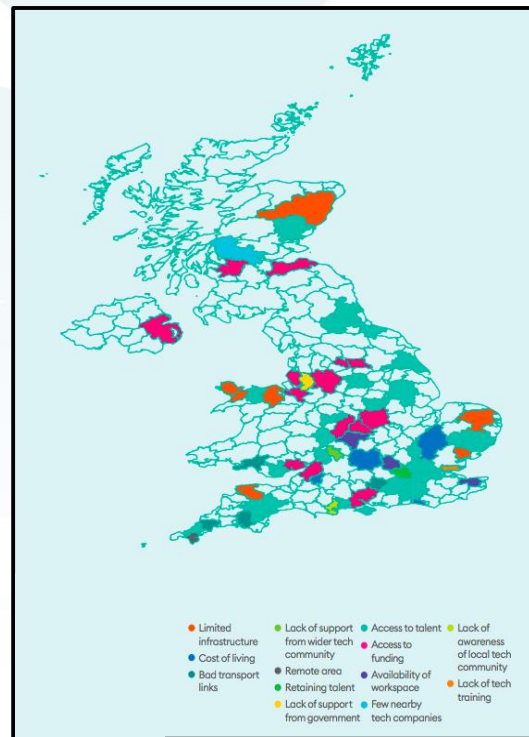
1. Access to talent

2. Access to funding

3. Bad transport links

Strengths of local tech ecosystems

Source: Tech Nation and Streetbees, 2018



UK tech communities value quality of life and sense of place

KEY STRENGTHS PERCEIVED BY THE LOCAL TECH COMMUNITY

Communities identified the top ecosystem strengths as: 1) appealing area; 2) a helpful tech community; 3) proximity to a university.

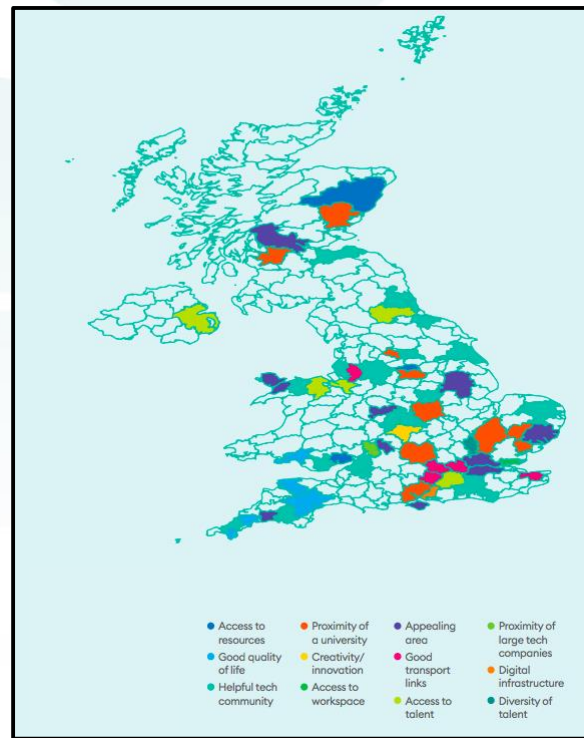
Challenges of local tech ecosystems

Source: Tech Nation and Streetbees, 2018

1. Appealing area

2. A helpful tech community

3. Proximity to a university



Recommendation

Learn from peers, accelerate growth

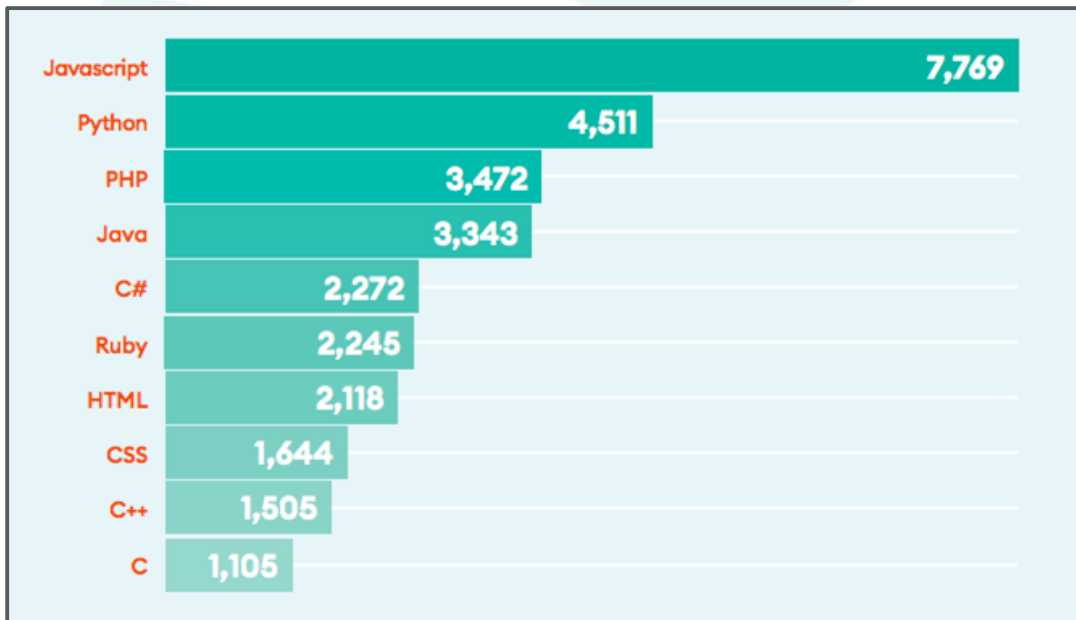
4. Collaboration, connectivity and culture

UK software developers are highly collaborative

GITHUB SHOWS HOW UK TECH DEVELOPERS SHARE CODING LANGUAGES

Data on 52,000 UK Github users reveals important, often hidden, ways that developers collaborate. Languages associated with web development are prevalent, the top three are JavaScript, Python and PHP.

Top programming languages used on Github, by number of users



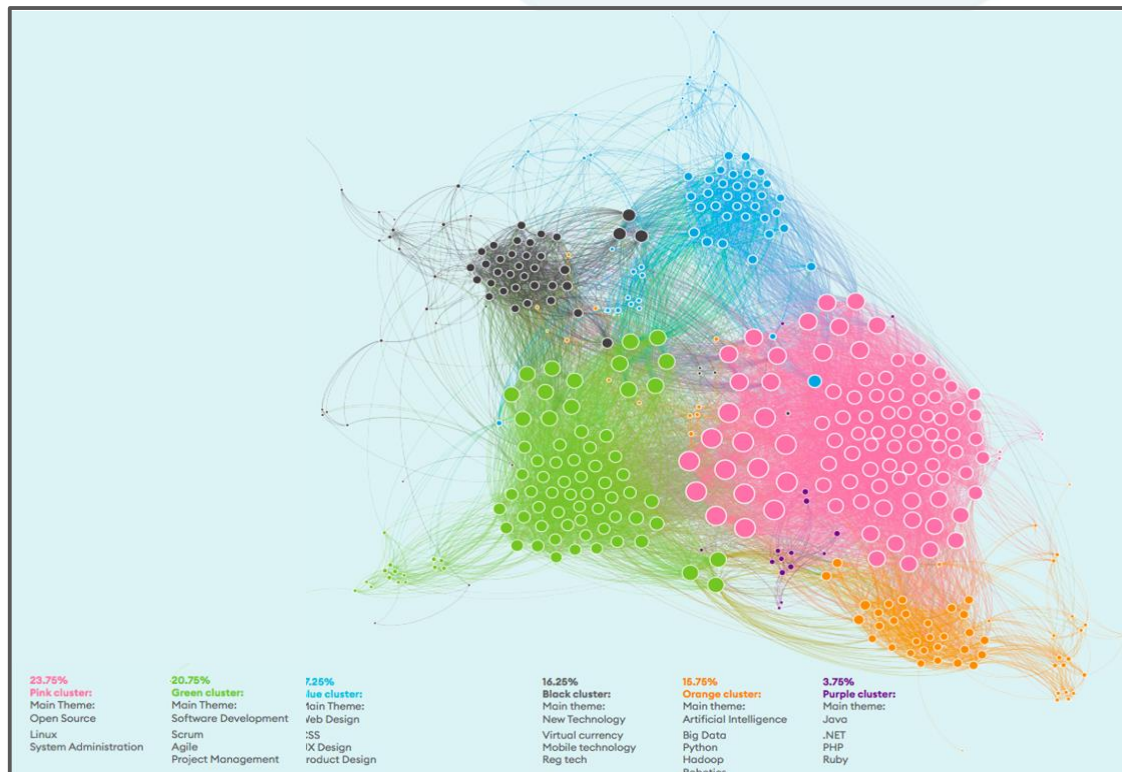
Source: Tech Nation, 2018;
Github, 2018

The UK tech community is highly connected

Top 400 meetups highlight emerging trends, watch out for AI and blockchain as they take centre stage in the conversation

Top 400 tech meetup groups by membership in the UK 2018

Source: Tech Nation, 2018; Meetup.com, 2018



Recommendation Collaborate to accumulate

5. Jobs and skills

Jobs in the UK

Digital tech jobs in digital tech - includes only people working in digital tech occupations in the digital tech industries. For example, a software developer working in a web development firm.

Digital tech jobs - includes all people working in digital tech occupations, irrespective of the industry. For example, a software developer working in a retail company.

1.87 M
Digital
tech jobs

Source: ONS Annual
Population Survey,
Wave 4 2016,
Waves 1-3 2017

0.84M
Digital tech
jobs in the
digital tech
sector

Source: ONS Annual
Population Survey,
Wave 4 2016, Waves 1-3
2017

1.07M
Jobs in
digital tech

Source: ONS Business
Structure Database, 2017

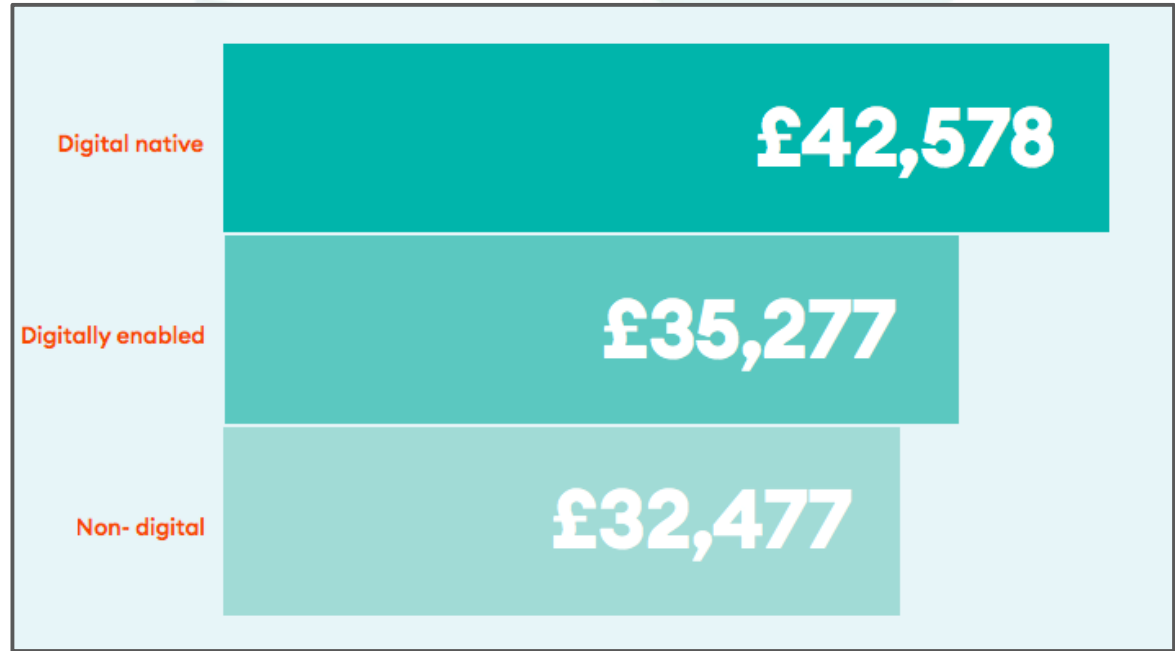
Jobs in digital tech - includes all people working in the digital tech industries, including non-digital jobs. For example, an accountant working in a web development firm.

#WeAreTechNation • technation.io

Jobs in digital tech are on the rise

THE MORE DIGITALLY SKILLED A UK JOB IS, THE HIGHER ITS AVERAGE ANNUAL SALARY

From 2014 to 2017 digital tech sector employment rose 13.2%. Its workers are more productive, on average, by £10,000 per worker. Jobs requiring digital tech skills command higher salaries, at £42,578 compared to £32,477 for those that do not.



Average annual salary of jobs Source: Adzuna, 2018

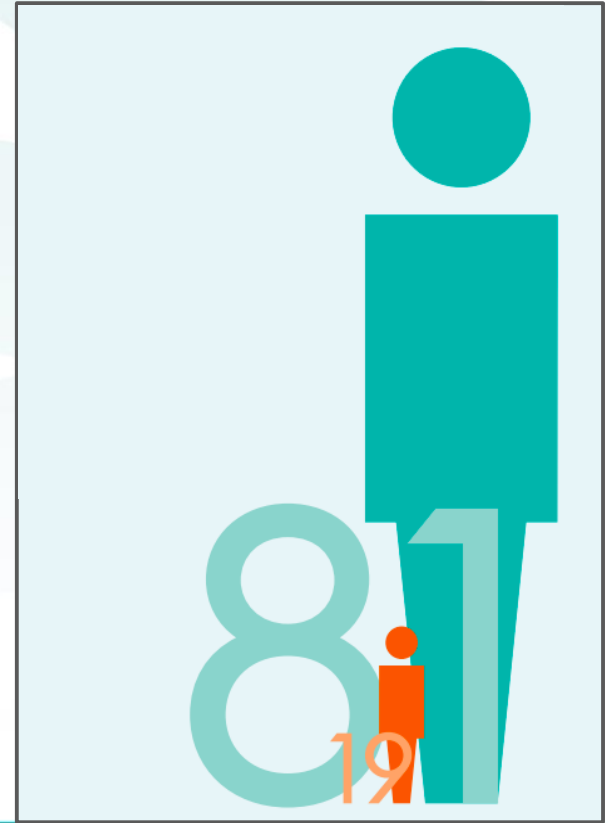
Diversity remains a key challenge for digital tech

WOMEN IN TECH ARE OUTNUMBERED 4:1

Only 19% of the digital tech workforce is female. Despite the stereotype that digital tech jobs are for millennials, 72% of workers are aged over 35.

Gender diversity of people
working in digital tech jobs, 2017

Source: Tech Nation, 2018;
ONS, Annual Population Survey,
Wave 3 2017



Recommendation

Recruit talent creatively

Tech Nation Report 2018: Radically Open

Tech Nation Report: Open data

USE THE DATA.WORLD PLATFORM

Interested in digital density across the country? Or want to merge your own data? Now is your chance to hack Tech Nation from the inside.

The screenshot shows the Data.world platform interface for the 'Tech Nation Report 2018' project. The header includes the Data.world logo, a search bar, and a '+ Add' button. The project title 'Tech Nation Report 2018' is displayed with a green 'OPEN' badge and the user '@henritechcity' and update date 'Updated May 21'. Below the title are tabs for 'Overview', 'Insights', 'People', 'Discussion', and 'Settings'. The main content area is divided into sections: 'PROJECT OBJECTIVE' with the text 'This project exists to open Tech Nation 2018 data to anyone who wants to use it.' and tags 'technology, tech, digital, uk, united kingdom, software, economics'; 'PROJECT INSIGHTS' with a 'Create an insight' button and three circular data visualizations; and a 'TECH NATION' section with a description of the report and its data license. On the right side, there are panels for 'DATA SOURCES' (with an 'Add data' button), 'Project files' (listing 13 files and 22 tables), 'henritechcity/OUTPUT2_DIGITALTEC HBUSINESS' (listing 4 files and 4 tables), 'DOCUMENTS (2)' (listing 'Project summary' and 'Data dictionary'), and 'QUERIES (2)' (listing 'UK Digital Density by Travel to ...' and 'Meetups by city').

Data.world platform

Truro and Redruth

Digital tech turnover up by 32% from
2014 to 2017

Tech Nation Report 2018

Truro & Redruth

£50 m

Digital tech business turnover (2017)

£70 k

Digital tech turnover by employee (2017)

£93 m

GVA
(2017)

716

Jobs in digital tech sector
(2017)

2,368

Digital tech jobs
(2017)

What Truro & Redruth startups say is a strength

1

Helpful tech community

2

Appealing area

3

Good internet speed

What Truro & Redruth startups say is a challenge

1

Access to talent

2

Bad transport links

3

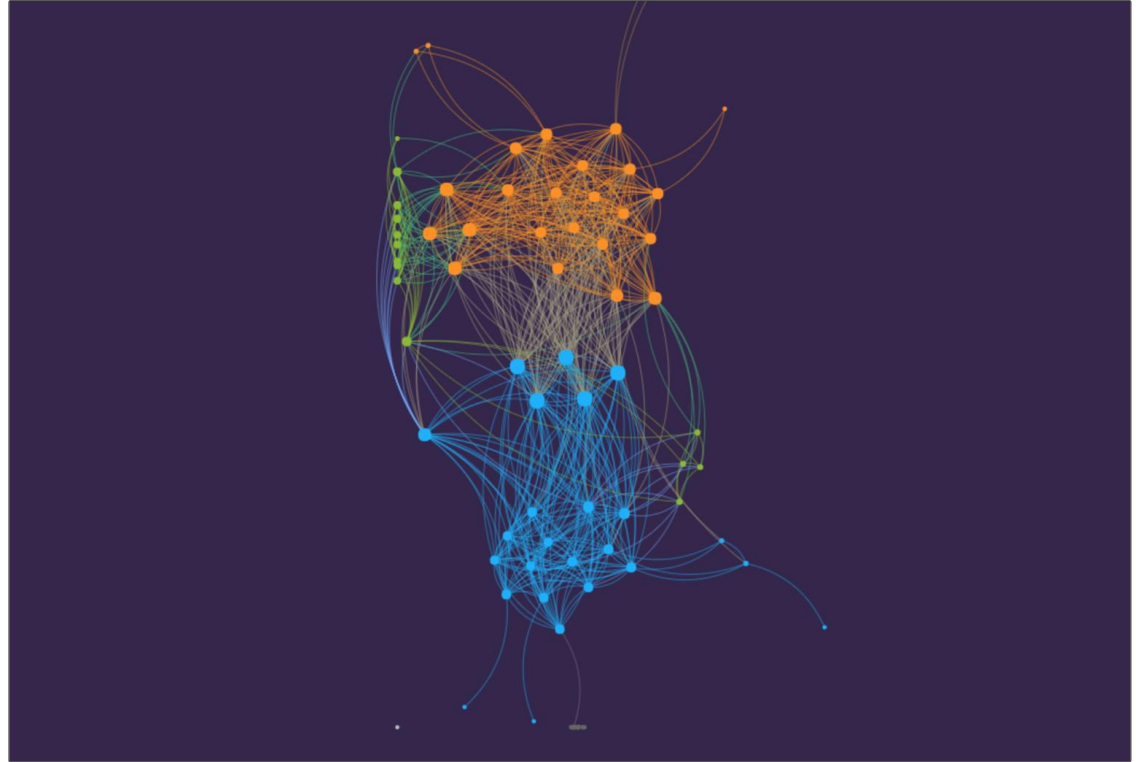
Remote area

Tech communities are highly connected

Big data and emerging technology conversations are taking centre stage

Tech meetup groups clustered by topic in the UK 2018

Source: Tech Nation, 2018;
Meetup.com, 2018



TECH NATION



on tour

EDINBURGH
21st June

NEWCASTLE
27th June

READING
18th July

BELFAST
26th July

BRISTOL
12th September

BIRMINGHAM
19th September

LEEDS
27th September

MANCHESTER
4th October

CARDIFF
11th October

Signup at: technation.io/events

Explore the findings online at:

technation.io/report2018

@technation

#WeAreTechNation