

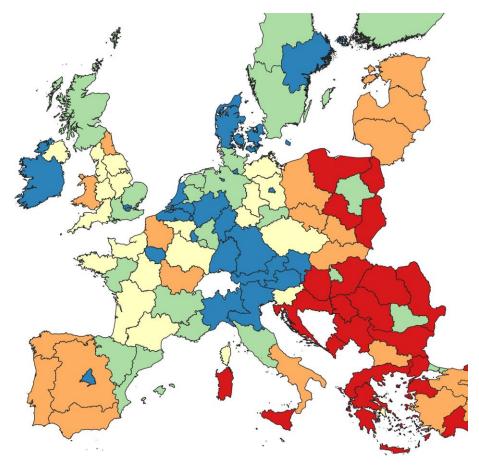
#### Tackling regional R&D imbalances

Richard Jones
University of Manchester





#### Most of the UK is is below the North European average in economic strength.



Outside the SE, productivity levels are comparable with E. Germany or S. Italy

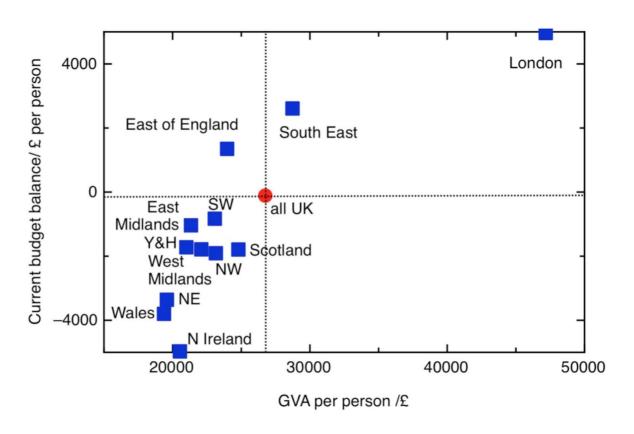
GDP/capita at PPS, NUTS1 regions of the EU in 2017.

(Republic of Ireland figures are not comparable)

Tom Forth



# Only three regions of the UK contribute to government more than they receive.

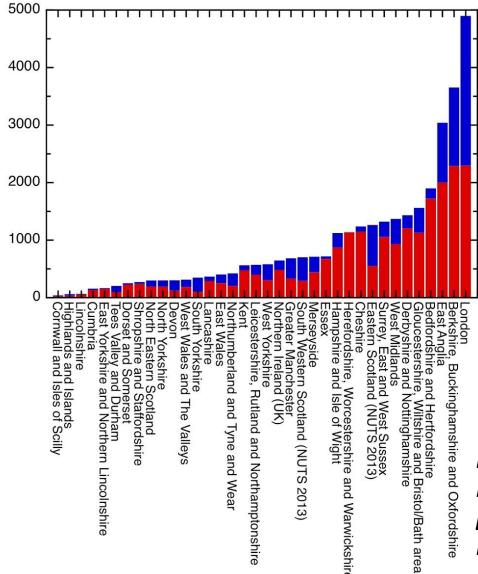


The difference between government revenue and current expenditure for NUTS1 regions, plotted against their regional productivity (GVA per person), both expressed per head of population. ONS data.



### R&D spending is highly concentrated in London, E & SE

funding.



Public sector funding is more concentrated than private sector

Business enterprise sector

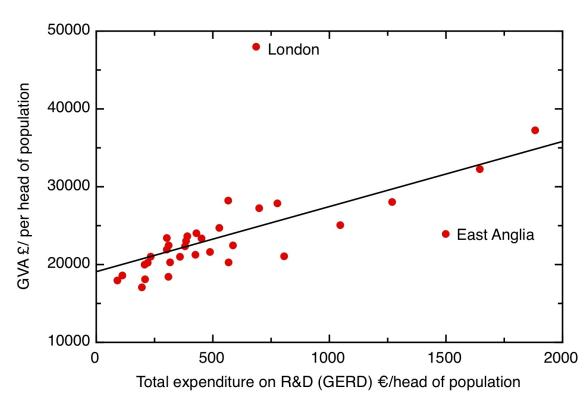
Non-market sector

London, together with the two subregions containing Oxford and Cambridge, account for 46% of all public and charitable spending on R&D, with 21% of the UK's population.

Business and public sector R&D by NUTS2 region (except for London, presented at NUTS1 level). 2016 data, Eurostat.



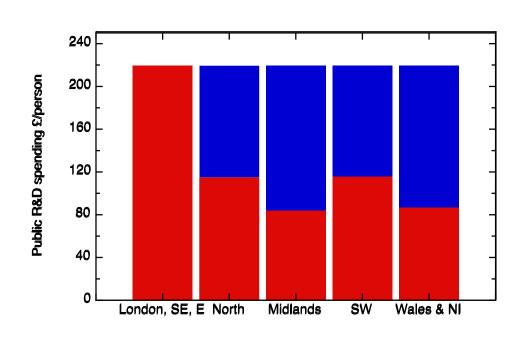
# Poorer, less productive regions do less R&D



GVA per head plotted against total R&D spending per head, by NUTS2 region (except London and Scotland, represented at NUTS1 level). GERD data from Eurostat, GVA from ONS.



### Levelling up – the scale of the problem



Extra annual revenue spending to "level up" per capita spending to London/SE/E average.

North - £1.6 billion /pa

Midlands - £1.4 billion /pa

Southwest - £570 million /pa

Wales and Northern Ireland - £660 million /pa

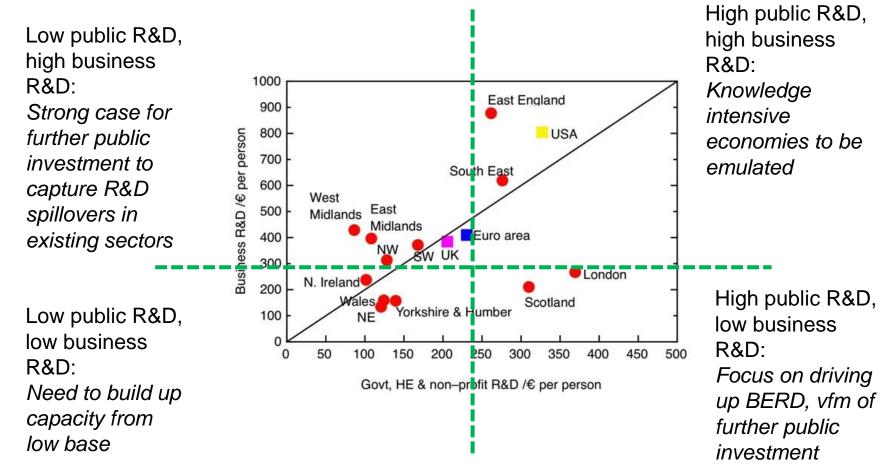
Total: £4.2 billion

UKRI budget
Total public spending on R&D by 2025 promised in March budget
Total spending on innovation by the English RDAs 2005-2008:

£7 billion /pa £22 billion/pa £323 million



# Different places, different approaches





#### What we should do about it

- Devolution of substantial R&D funding
  - Need to build analytical & institutional capacity to manage in cities and regions
- New R&D institutions outside London, E & SE
  - Initial focus on translational research
  - Innovation districts & manufacturing innovation parks
- Culture change at UKRI
  - Formal representation for nations & regions
  - Place based funding instruments



#### Thanks!

For more:

"A Resurgence of the Regions: rebuilding innovation capacity across the UK".

R.A.L. Jones, preprint (2019)

http://www.softmachines.org/wordpress/?p=2340

"The Missing Four Billion: Making R&D work for the whole UK"

Tom Forth & Richard Jones, NESTA (2020)

https://www.nesta.org.uk/report/the-missing-4-billion/

