Raising UK Productivity

IFS Productivity Conference, London, 25th March 2025

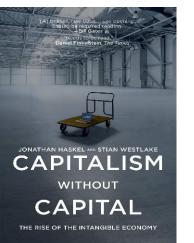
Jonathan Haskel

j.haskel@imperial.ac.uk

Imperial College Business School, Imperial College London

Data from: EUKLEMS & INTANProd – Release 2025





Business has changed...

Factories used to look like this ...



... but now are this



... the shape of the world's top companies

	Company	Market capitalisation, \$bn (31st March 2024)
I	Microsoft	3,126
2	Apple	2,648
3	NVIDIA	2,224
4	Saudi Aramco	1,991
5	Alphabet	I ,884
6	Amazon	1,874
7	Meta	1,238

Aramco's assets

Microsoft's

assets

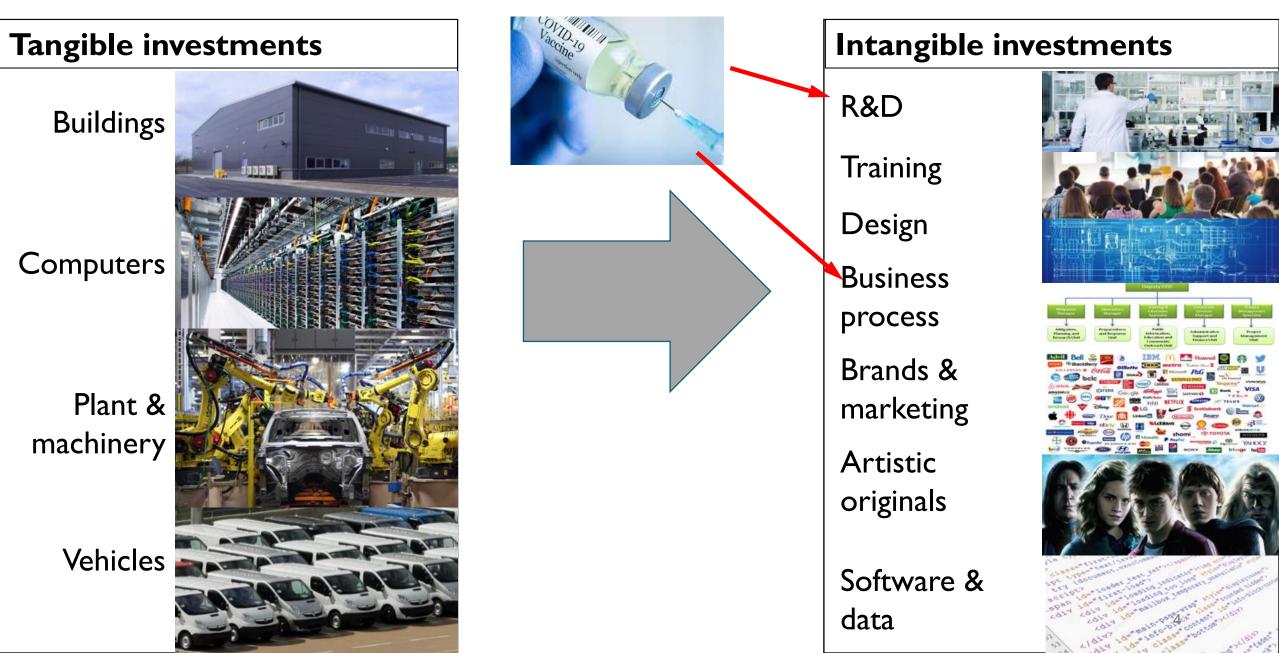


Function: CmdSpelling * Author: * Copyright: Microsoft 1986 * Date: 8/31/87 *	
<pre>* Description: Menu level command fu *</pre>	
** ***/	
/* %%Function:CmdSpelling %%Owner:bry CMD CmdSpelling(pcmb) CMB * pcmb;	
<pre>{ int cmd = cmdOK; CHAR szFileT [ichMaxFile]; CHAR dlt[sizeof(dltSpeller)]; struct SPV spv; struct SPL spl;</pre>	

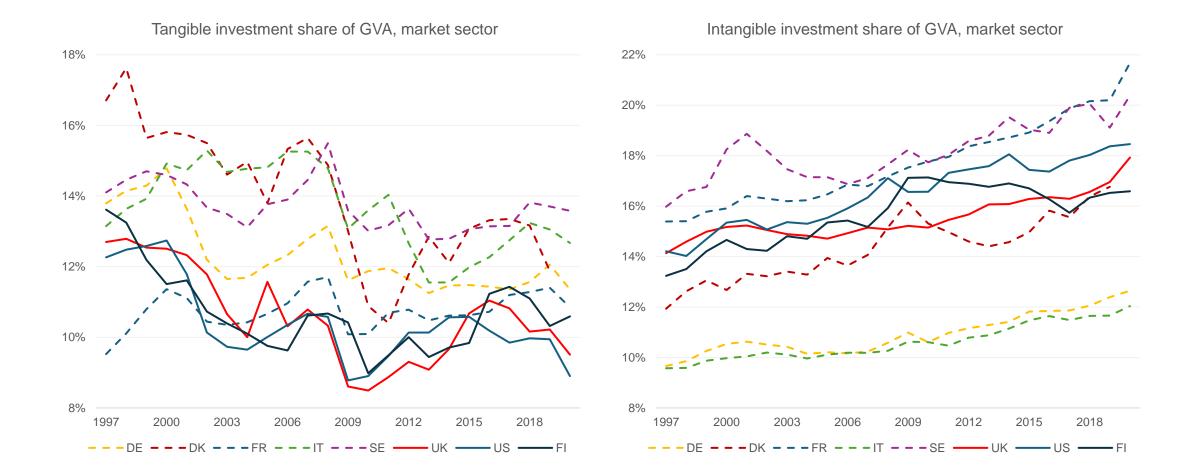
struct SCD scd;

Source: PWC (2024)

Tangible and intangible investment



How capital investment has changed...



Source: author calculations from <u>EUKLEMS/INTANProd</u>.

I. Economic properties of intangible capital

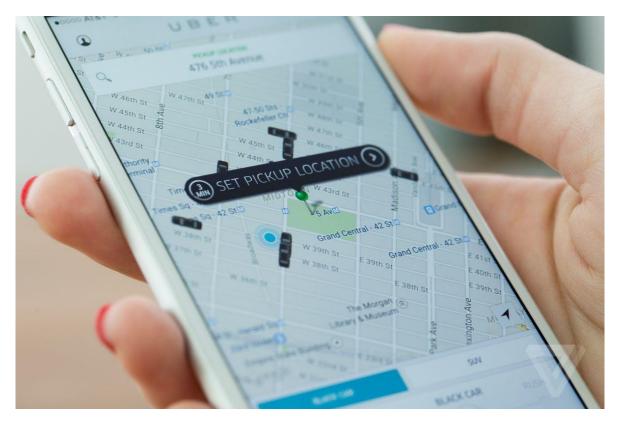
2. Policy

Property of intangibles I:SCALABILITY

Taxicabs: not scalable



Uber algorithm: highly scalable



Property of intangibles 2: SUNKENNESS



Phone company goes bust? Sell your HQ.





But intangibles are harder to sell off.

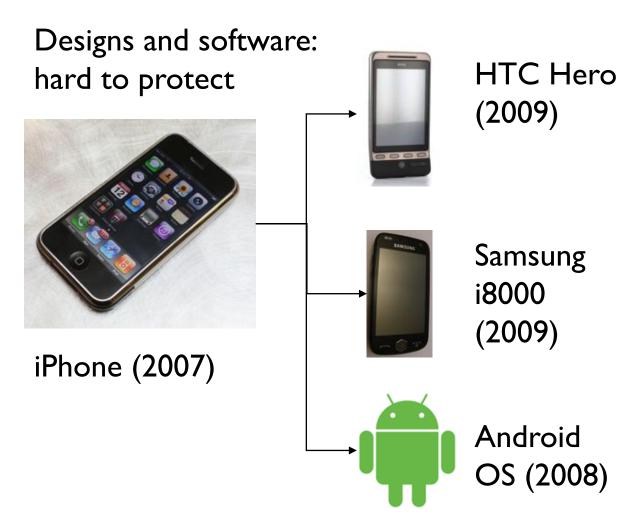


Windows Mobile 6.1 Today Screen

Property of intangibles 3: SPILLOVERS

Tangible assets: easy to protect





Property of intangibles 4: SYNERGIES



- I. Economic properties of intangible capital
- 2. Policy

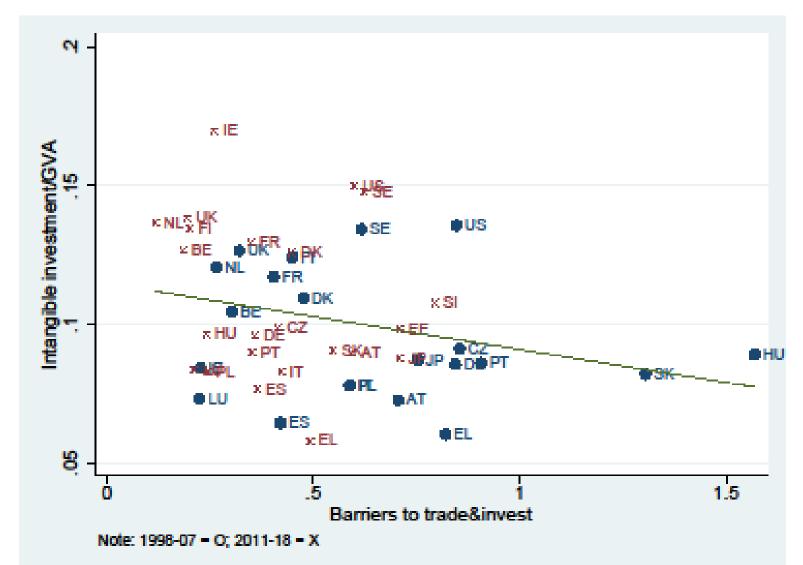
Scalability: open markets

Taxicabs: not scalable



Uber algorithm: highly scalable





Sunkenness: flexible markets

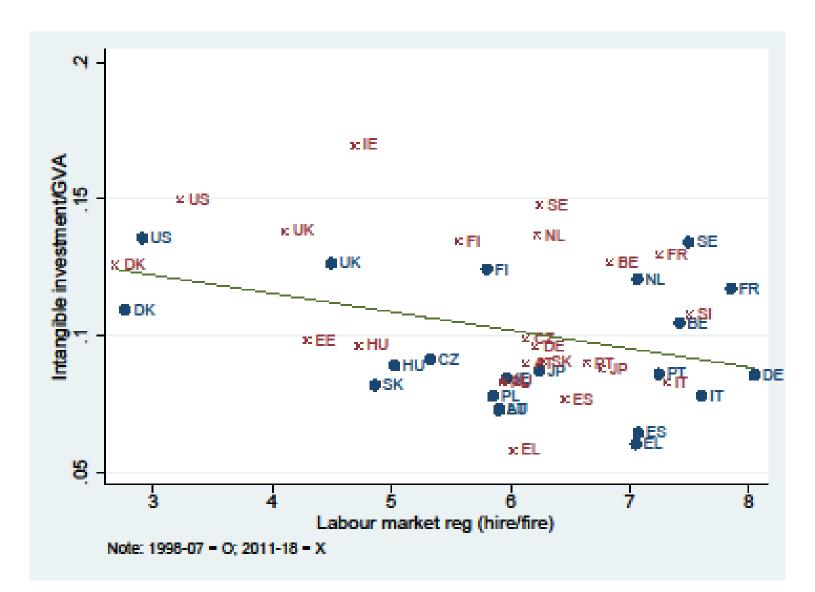


Sell tangible



Cannot sell intangibles

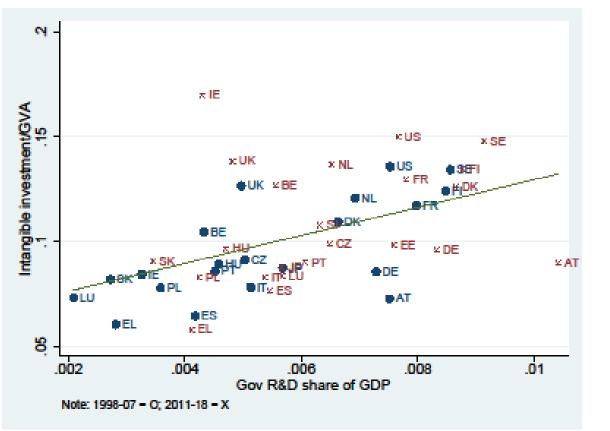




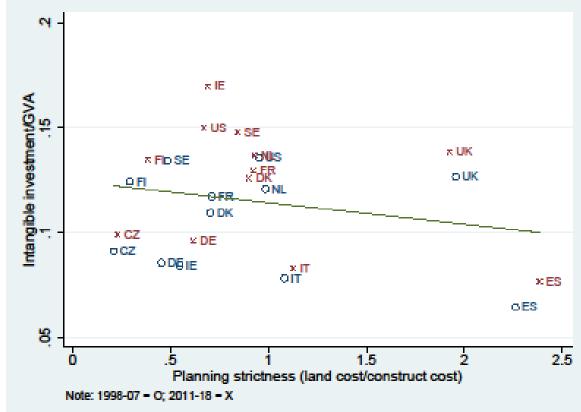
Spillovers/synergies



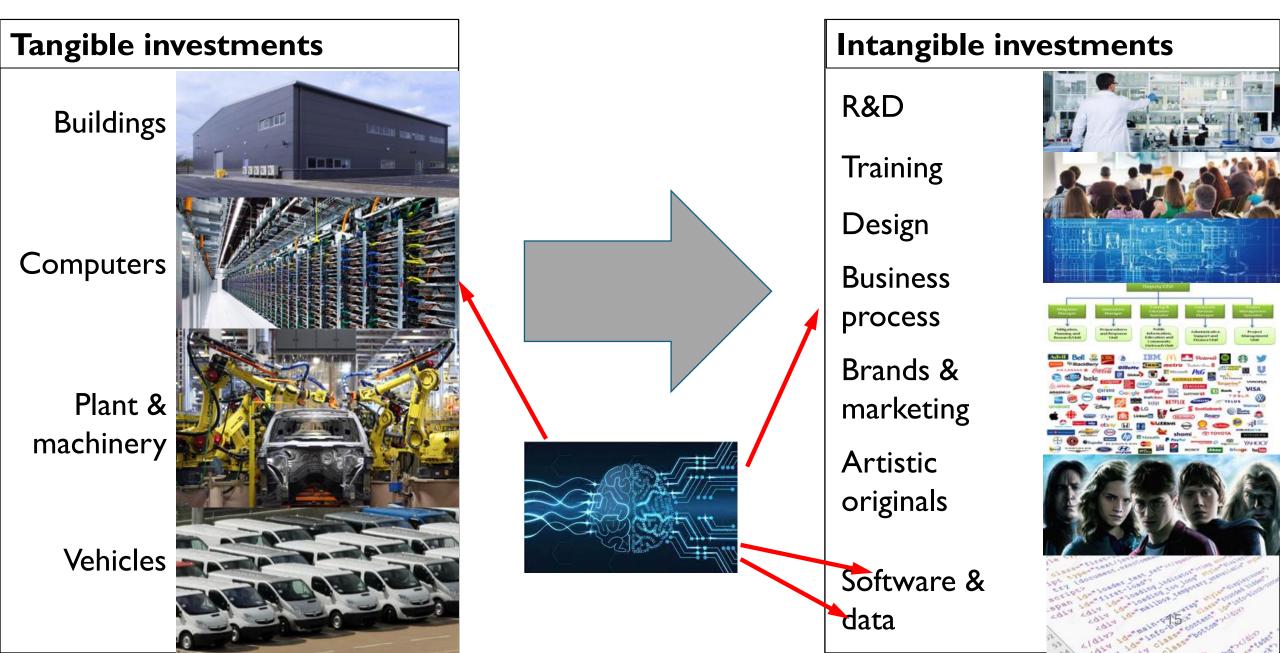
Public science



Clusters



The next technology wave...



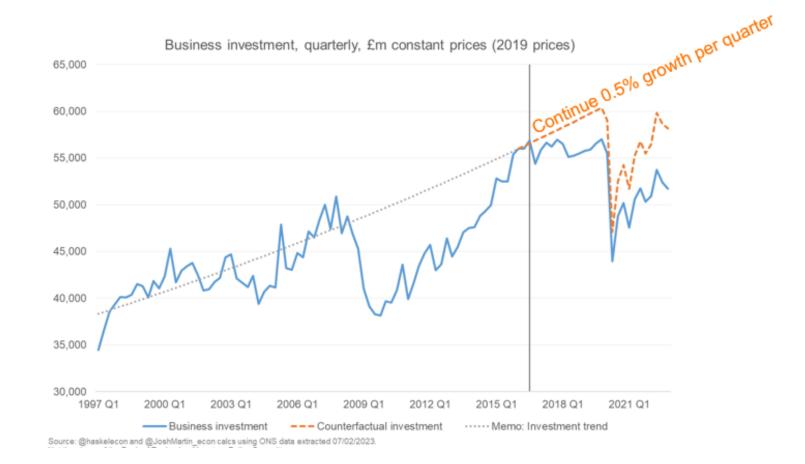
Economic properties of intangibles and policy

Asset feature	Economic effect	Policy
Scale	Superstar firms	Open markets, competition
Sunkenness	Underinvestment	Entry/exit costs, financial markets e.g. VC, pension funds, uncertainty
Spillovers	Underinvestment	IP, Science funding and mobility
Synergies	Agglomeration	Planning reform



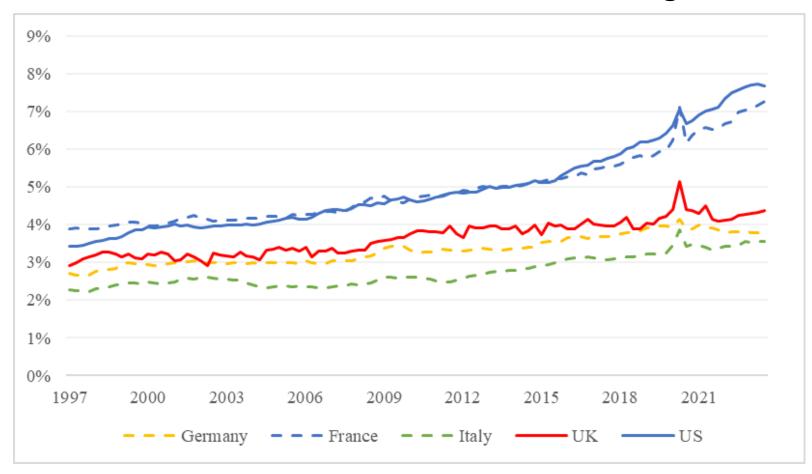
Spares

Brexit



US technology leadership

Investment/GDP for software, R&D, artistic originals



Source: OECD.