



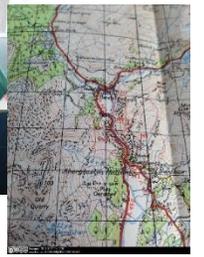
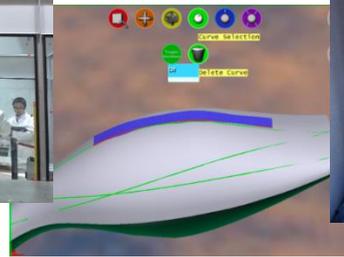
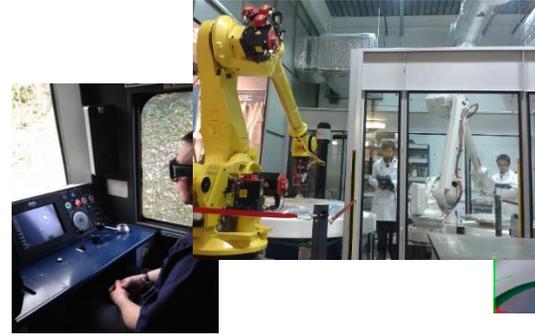
**University of
Nottingham**

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Automation, People and the Future

Sarah Sharples

**Professor of Human Factors, Faculty of Engineering
Pro-Vice-Chancellor for Equality, Diversity and Inclusion**





connected everything.
industrial systems in the digital age



Government
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A time of unprecedented change in the transport system

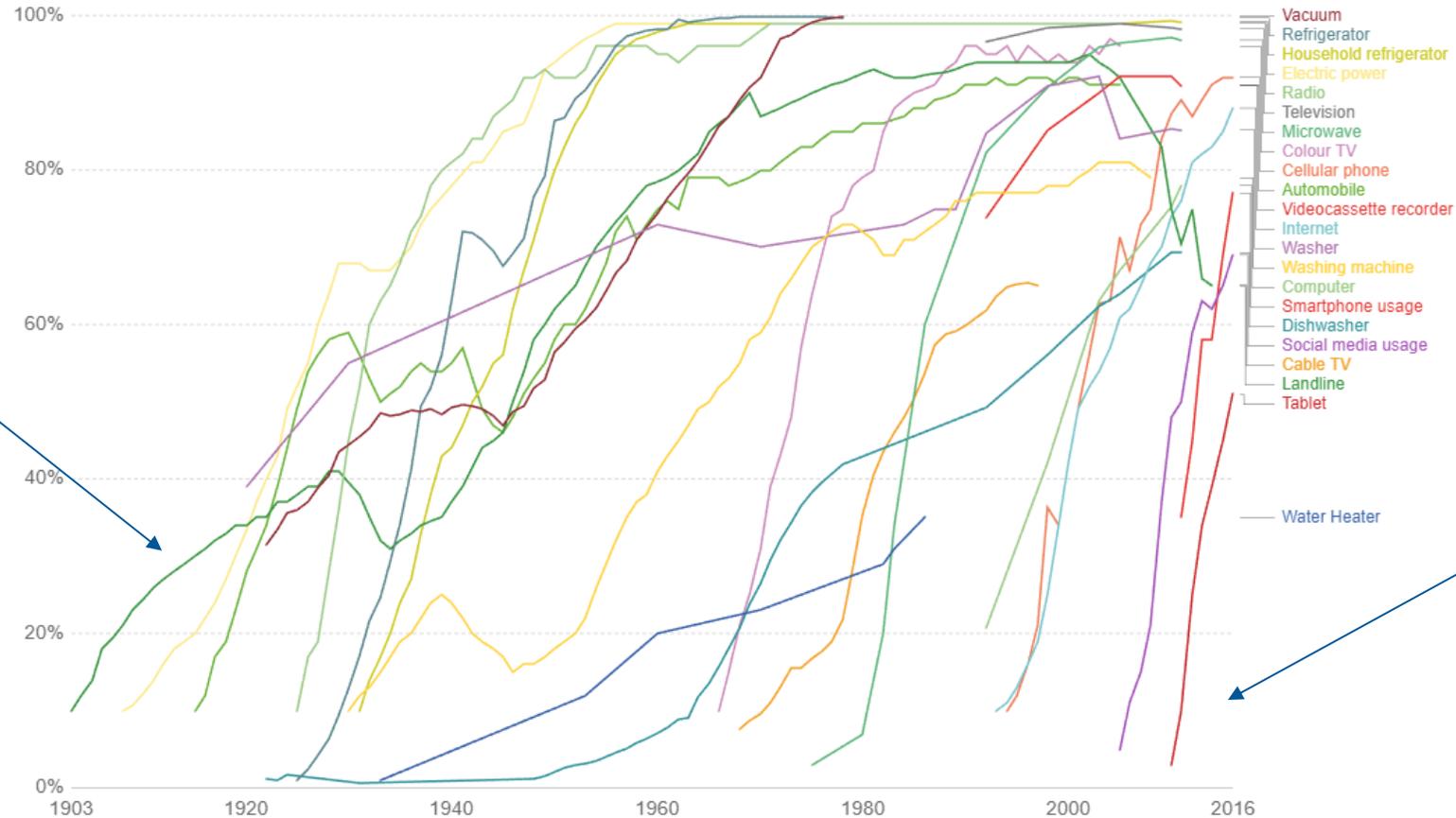
John Players Nottingham, taken from <http://www.bbc.co.uk/news/uk-england-nottinghamshire-36324884>

Our rate of adoption of technologies is increasing

Technology adoption by households in the United States

Technology adoption rates, measured as the percentage of households in the United States owning, or the adoption rates of, a particular technology. See the sources tab for definitions of household adoption, or adoption rates, by technology type.

OurWorld
in Data



Source: Comin and Hobijn (2004) and others

OurWorldInData.org/technology-adoption/ • CC BY-SA

+ Add technology

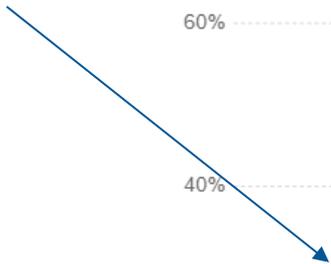
CHART

DATA

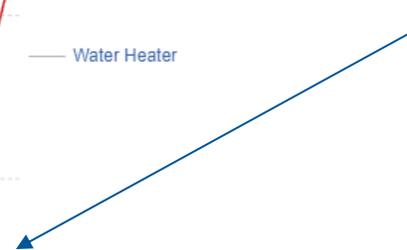
SOURCES



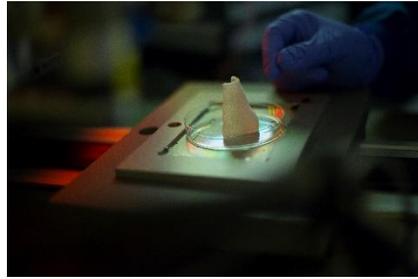
Landline
telephone



Tablet



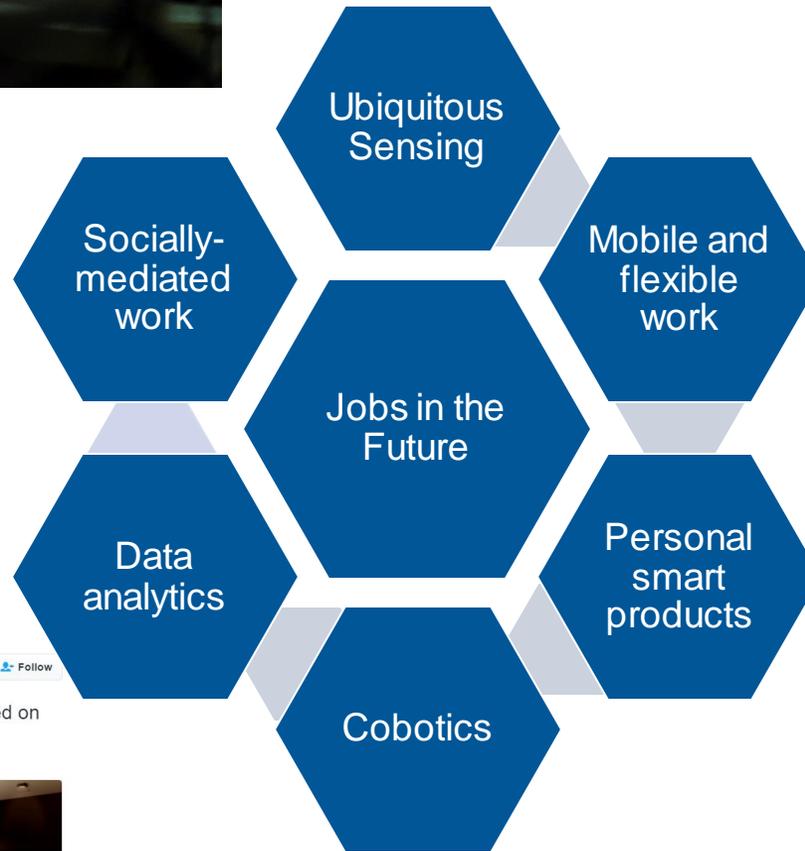
Trends in jobs, cities and work



Innovate UK
@innovateuk

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#IntelligentHomes will wake you up based on traffic or public transport delays:
ow.ly/31kV300Q9TD #IoT #Vid

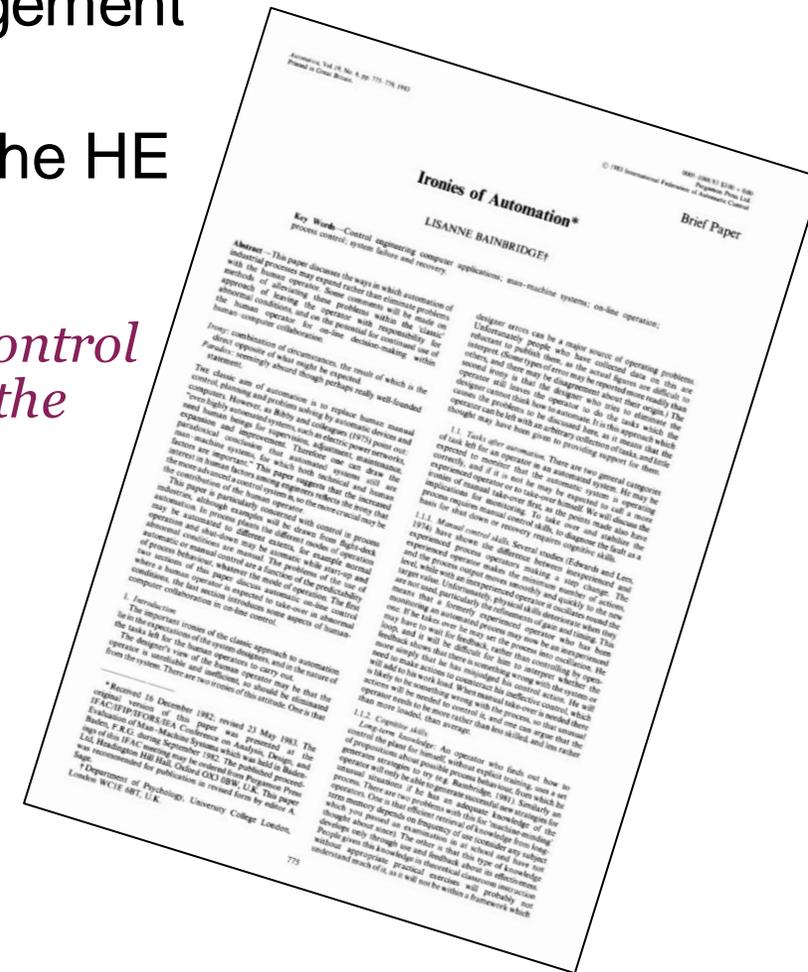


What does Automation mean for Higher Education?

- Skills, understanding and context - Multidisciplinary for all?
- Lifelong learning and the role of HE in preparing for work
- Balancing hands-on practice with global digital engagement
- Beware the ironies of automation
- The human characteristics of technology – robots – the HE students of the future?

“the irony that the more advanced a control system is, so the more crucial may be the contribution of the human operator.”

..Does he have a favourite robot? “I actually do. 64117. There’s a kind of leaderboard system that tracks each drive unit, and I follow them all. 64117 has travelled only 164 metres the whole time it’s been here. It’s the laziest drive we’ve got. It’s got the work/life balance worked out.”





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Thank you

@scsharples