

# Technology – into a new era: potential inflexion points

**Brian Williamson** 

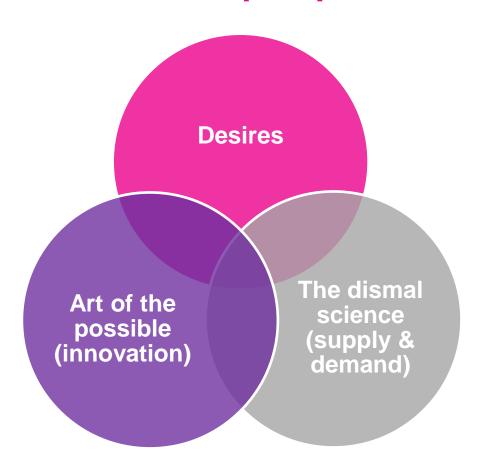
**9 February 2012** 

**The Intellect Annual Regent Conference** 

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## **Need more than one perspective**





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#### What are our desires?



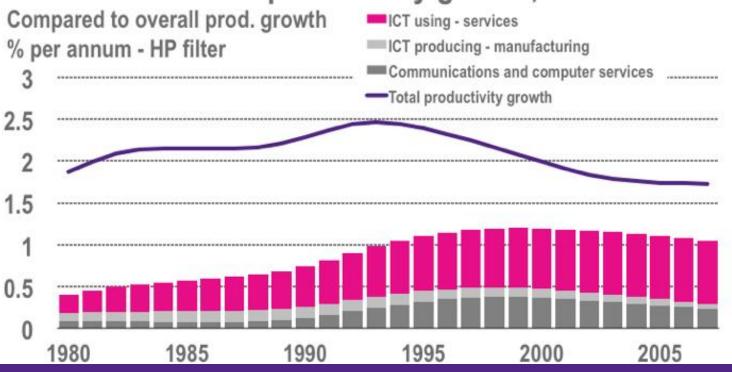
Nomadic	Social
Touch	Gesture

Wireless will "bring us back to behaviour patterns that were natural to us and destroy behaviour patterns that were brought about by the limitations of technology." Risto Linturi, Wired Magazine, 1999

#### The dismal science



# ICT contribution to productivity growth, UK

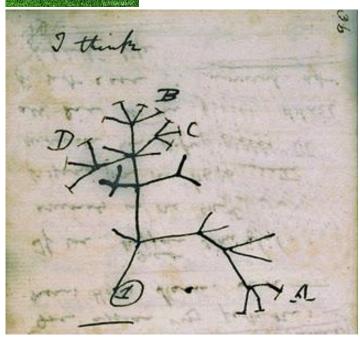


ICT share of GDP may begin decline as GDP impact grows – an inflexion point

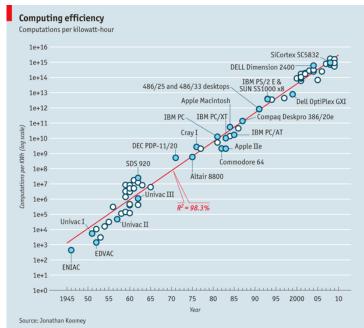
# Art of the possible: innovation types plum











- •Human brain: 2 billion megaflops with 20 Watts ≈ million times iPad efficiency
- •Science = hypothesis + mathematics + experiment (does "big data" shift equation)?
- •Market and/or sufficient computing power allow innovation via evolution/selection

## **Computing & inflexion points**



Rise of wireless, small screen, compression & noise cancellation (VDSL)

Is our fibre obsession justified?

Computing & information

– complements &
substitutes (personal devices, sensors, AI & the cloud)

Will explosive data growth reignite or will computing help us live within connectivity limits?

Costs of joining things up ourselves helped by web standards, micropayments & wireless connectivity

Will supplier driven bundling trend reverse?