

MEGATRENDS Innovations in technology and their impact on consumer services

Who am I?

- Dave Kenworthy
- Director of Digital Services
- CoSector University of London
- Providing technology and wisdom for learning and education
- I am proud to be a generalist



Why?

- Why should we spend time considering the impact of technology on us as consumers?
 - Question everything
 - Hype-busting
 - □ Link technology to outcomes for people
 - □ Spot the opportunities
 - □ Confidence to not be an expert



Context

- Technology drives change in the world around us.
- Or does it?
- People drive change
 - Comfort / convenience
 - Safety
 - □ Cost
 - Competition
 - □ Greed
 - □ etc.
- And they use technology to achieve it



What are the key impacts?

- Immediacy
- Information
- Personalisation
- Distribution





The Hype

The Hype – Virtual / Augmented Reality

- Impressive toy, but
- Very niche application
- High design/implementation costs
- Practicality
 - □ Headsets / Glasses
 - Eye implants? What about upgrades etc? Brand wars?





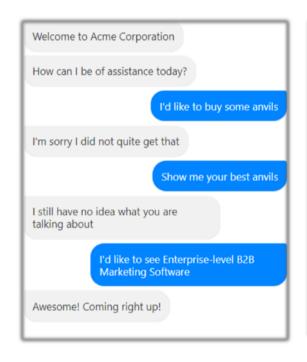


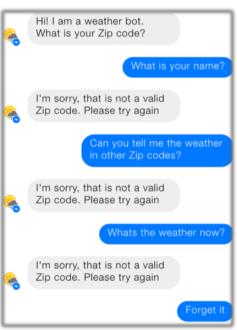




The Hype – AI (Artificial Intelligence)

- True AI is rare
- Could even the best AI solve some of the problems you are paid to solve?
- Chatbots are clever linguistic analysis used to form queries on limited datasets with the results presented in conversational form







The Hype – Mobile Payments

- Mobile Payments
 - □ Does it change our behaviour or the possibilities of what we can do?
 - Not enough
 - □ Is it quicker?



The Hype – Voice Recognition

- Voice Control
 - □ Requires 100% accuracy
 - □ 99.99999%... is not good enough
 - □ Why do we actually want it?
 - ☐ Is it a solution looking for a problem?







The Hype - Blockchain

- A way of ensuring secure digital records WITHOUT a centralised master data store, i.e. distributed
- Used to underpin cryptocurrency such as BitCoin
- Being explored by major corporations but limited real life use cases found so far
- except...
- Secure financial transactions without centralised (government) visibility or control.



Or is it?

"I think there is a world market for maybe five computers.

Thomas Watson, president of IBM, 1943

"There is no reason anyone would want a computer in their home. "

Ken Olsen, founder of Digital Equipment Corporation, 1977

"Almost all of the many predictions now being made about 1996 hinge on the Internet's continuing exponential growth. But I predict the Internet will soon go spectacularly supernova and in 1996 catastrophically collapse."

Robert Metcalfe, founder of 3Com, 1995





Technology with real impact

SaaS (Software-as-a-Service)

- Renting of software
- Pay-as-you use but often free
- No installation
- Immediate access
- Minimal technical expertise required. Do you need an IT dept to run a business?

You Tube

amazondrive

 Professional capabilities available to organisations / individuals in the companion of the capabilities available to





- Use has evolved from personal relationships to:
 - Advertising
 - Customer Service
 - □ Issue Campaigns
 - □ Political Influence



- Pervasive and Embedded Advertising
 - Harder to distinguish content vs. advertising
- Personalised advertising so far seems unsophisticated







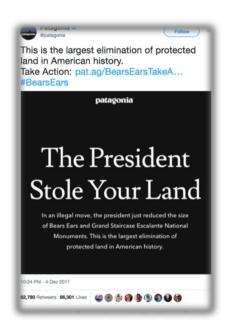
Low barrier to immediate and direct (yet public) conversation







Powerful for large scale social and political influence



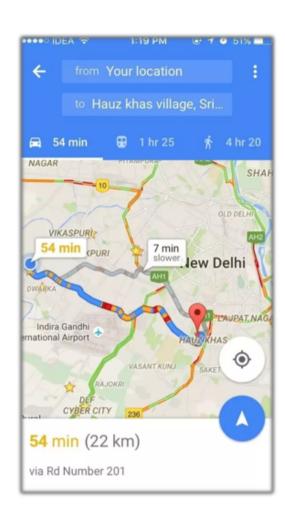






Data / Information

- Capability to capture, process and analyse huge datasets
 - Only possible with technology
- Privacy concerns
 - Concern at our data being used in ways that we are not comfortable with
 - Is giving up some privacy a fair price to pay for free technology that improves our lives?





Data / Information

- Information at our fingertips when we consume:
 - □ Prices
 - □ Reviews
 - Source context is critically importar
 - □ Fake news still persists



Are we smart enough to navigate all the data available to us?



Distribution of Technology (Taxis)

- What if I didn't have to buy and fit meters and radios for all my taxis?
- What if I didn't need to rent a taxi office?
- What if I didn' t need people manning my phone lines?
- What if I could open a branch in another town (or country) without buying more meters and renting another office?
- What if I knew where all my drivers were?
- What if I knew where all my passengers were?



Distribution of Technology (Taxis)

- Scale without scaling investment
- Scale = immediacy of service for consumers

 Location information = Predictability and choice for informed passenger (and driver)



Distribution of Technology (Parcel

- Delivery)
 What if I could have delivery transport without buying vans and fitting them with purchased radios, trackers etc?
- What if I don't need a place to store my delivery vans?
- What if I knew where my transport was?
- What if I had so many vans that I could have vans just deliver one parcel to one customer?



Distribution of Technology (Parcel

- Delivery)
 Amazon flex
 - "Make £12-£15/hr delivering parcels with Amazon. All you need is a vehicle, an Android or iOS phone, and some free time. Be your own boss: make great money, delivering when you want."
- Easy scale without investment
- Scale = immediacy for consumer
- One-Day Delivery
- Same-Day Delivery



amazon.com/sameday

amazonFLEX



3D Printing

- What if I didn' t even have to deliver my goods?
- What if I didn't have to store my goods?
- What if I didn't even have to manufacture my goods
- What if I could make spare parts for old or obscure items?
- What if I want to customise the item I' m buying?



3D Printing

- Car parts
- Clothing
- Body parts
- Houses
- Food
- 3D Printers...





3D Printing

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For consumers, this means:

Immediacy and Personalisation



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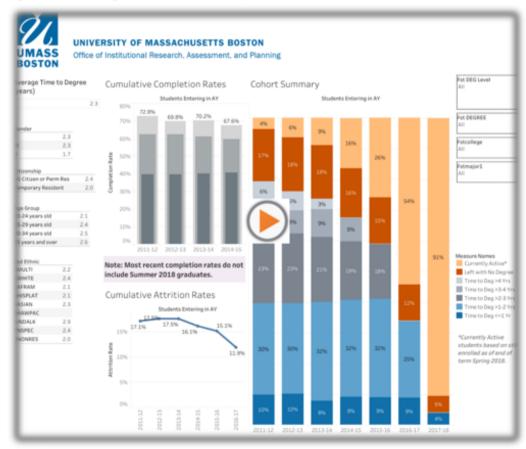
- Immediacy
 - □ I want to start my course NOW
 - □ I want to be assessed NOW
 - □ I want my qualification NOW

"For thousands of future students wanting a faster pace of learning and a faster route into the workplace at a lower overall cost, two-year degrees will transform their choices."

Chris Skidmore, Universities Minister, 2019



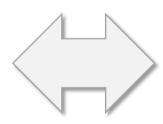
- Information
 - What will you do with data about me?
 - Will it help me?
 - Will it help the institution?



- Personalisation
 - □ I want to take my exam at 6am
 - □ I want to study for my degree over 12 months
 - □ I want to do Macro-Economics 201 at University X and Statistical Maths 201 at University Y and International Trade 201 online-only



- Distribution
 - Could a distributed learning marketplace exist?
 - ✓ I have something I can teach (institution)
 - ✓ I have something I can teach (organisation)
 - ✓ I have something I can teach (individual)



✓ I have something I want / need to learn



Thank you for your time