Libraries, Data and the Internet of Things

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Kirsty Lingstadt
Head of Digital Library & Deputy Director
Background
The University of Edinburgh

- Founded in 1583: Sixth-oldest university in the English-speaking world and one of Scotland's ancient universities
- Largest university in Scotland with 14,200 staff and 39,700 students
- Research-led institution - member of the Russell Group, Coimbra Group, LERU and Universitas 21
- 21 Nobel laureates affiliated with the University
Occupancy Monitoring
Occupancy monitoring – why?
Occupancy Monitoring - current

Receiver & PoE splitter

Sensors
Occupancy monitoring - current
Occupancy monitoring - current

8am to 6pm
Mon 24 to Fri 28 April
University of Edinburgh & Internet of Things
Internet of Things (IoT)
IoT for occupancy monitoring
Advantages of IoT for Occupancy monitoring

- Cost
- Ease of use (historic building/retrofitting)
- Scalability
- Immediacy
- Accuracy
Gate monitoring

Main Library occupancy for ALL students

Median duration: 02h:03m

Overview 31-Oct-17
Wi-fi & Gate monitoring
Occupancy monitoring: Data Flow
Ethics & Next Steps
Data and Ethics

Four Aspects of Big Data Ethics

Identity
Privacy
Ownership
Reputation

This surveillance equipment has been installed under the desks of PGRs at Uni without our prior knowledge or consent.
IoT, GDPR and wi-fi monitoring

- Consent
- Breach notification
- Right to access
- Right to be forgotten
- Data Minimisation or Datensparsamkeit
Next steps

- Privacy Impact Assessment
- Review by Ethics Committee
- 2 step approach
- Consultation
- Wider communication strategy
Things to Think about

- Ethics
- Who to consult
- Ongoing communication to all stakeholders
- Working with IT colleagues
- Smarter ways of working
Thank you

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