

The Implications of IoT on Victims/Survivors of Gender-Based Domestic Violence & Abuse

Dr Leonie Tanczer / @leotanczt









Gender and IoT (#GIoT)





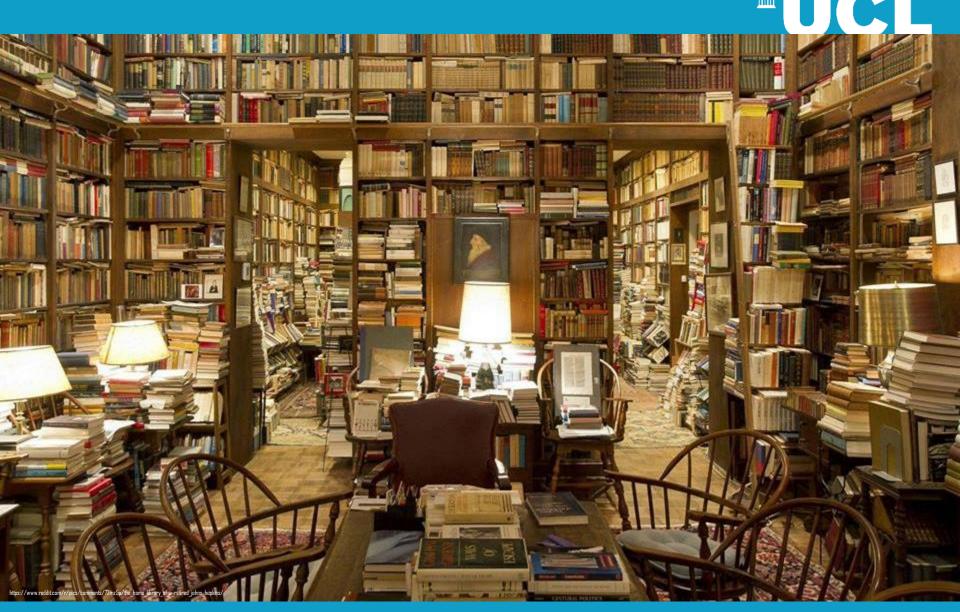




#Strike

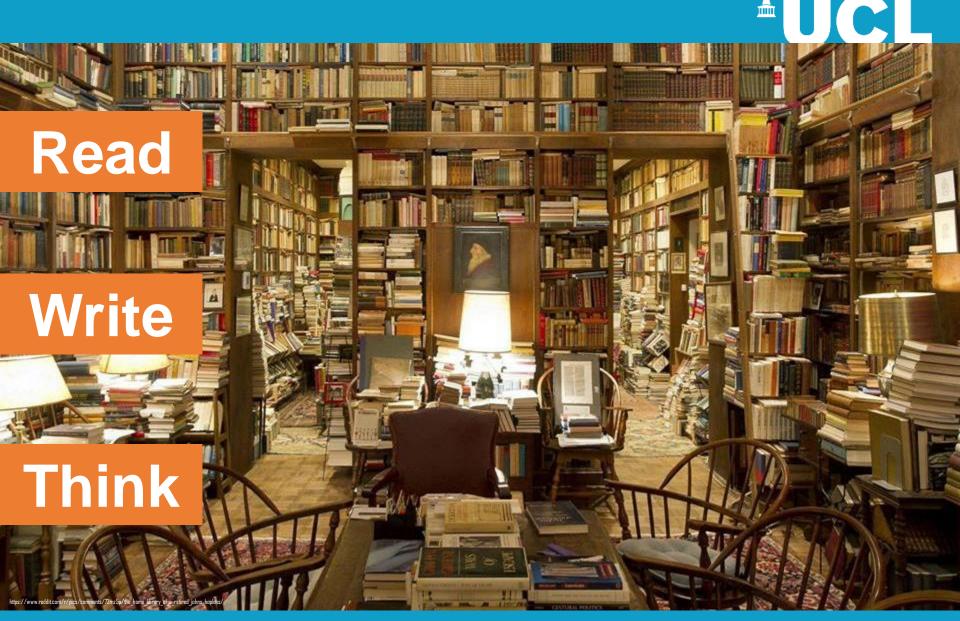






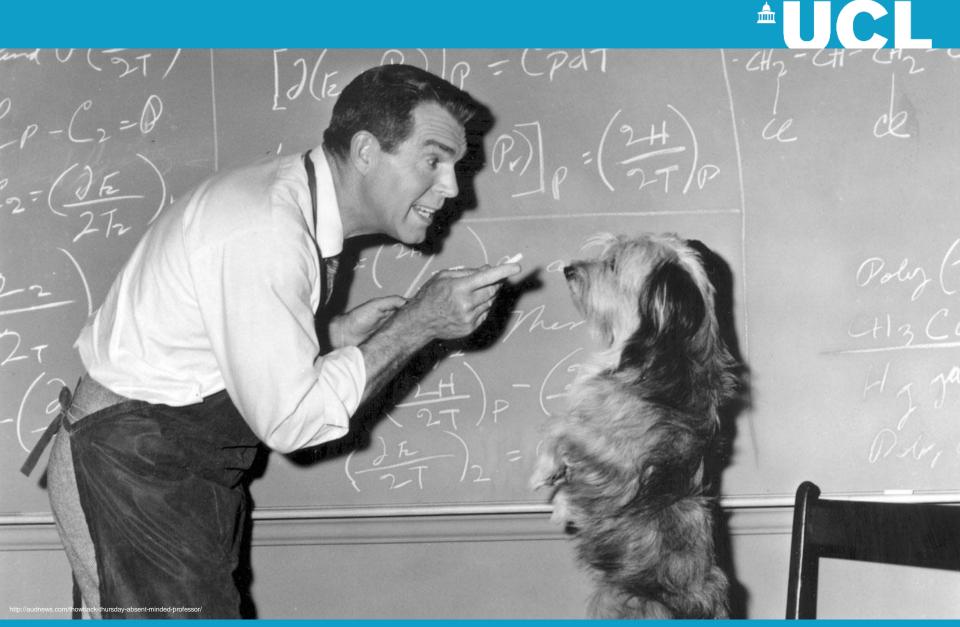












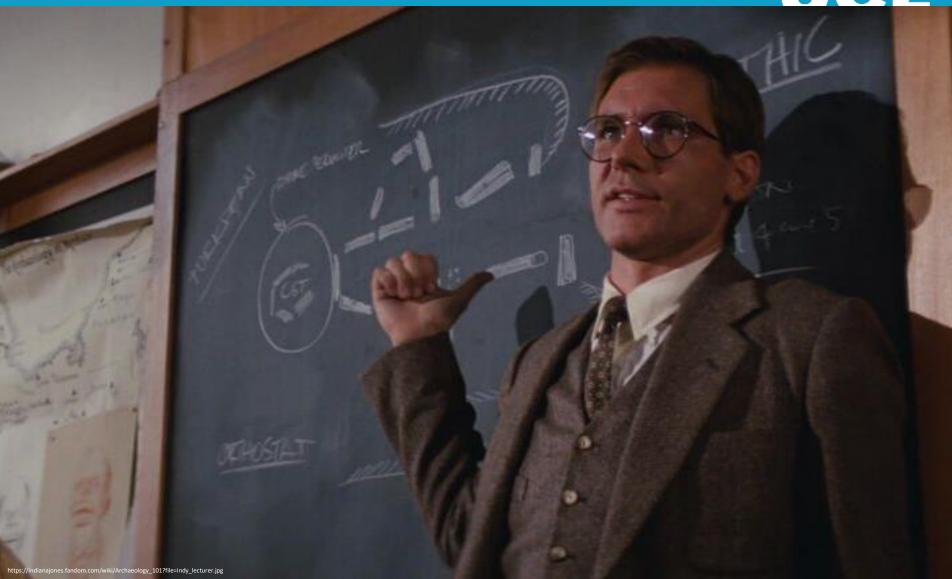




















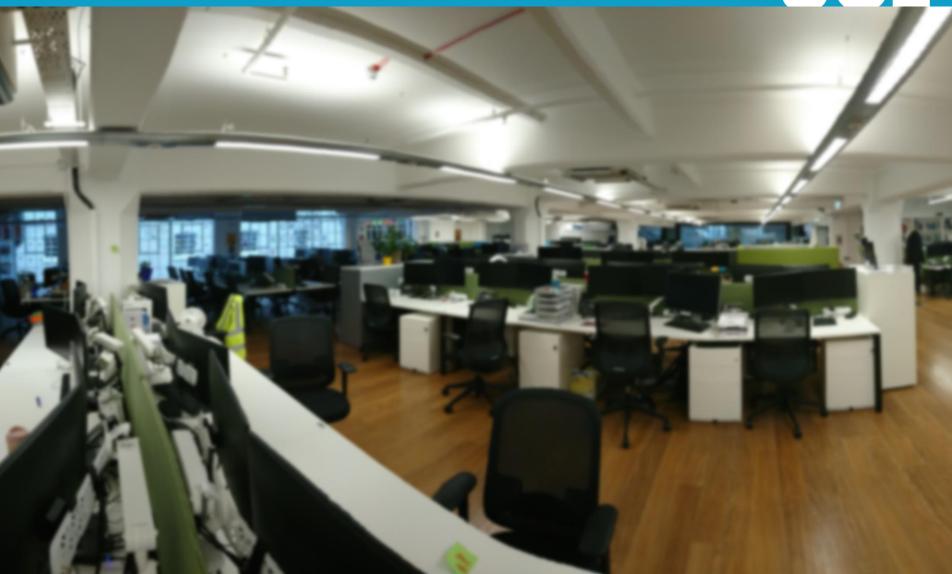


















Teaching/supervision

Research/publications

Income generation/funding

Policy engagement

Media/public engagement

Executive Education

Academic leadership

Consultancy

Administration/line manag.









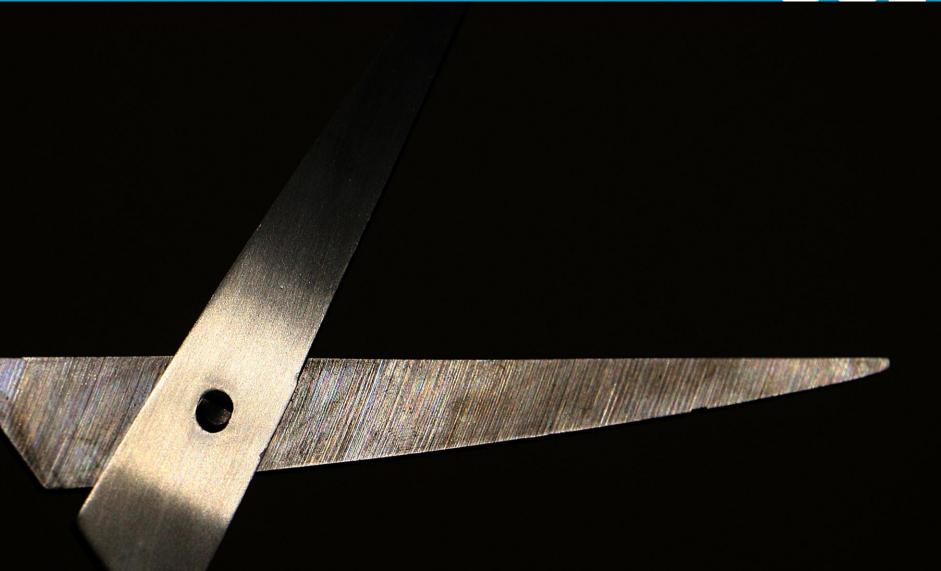
How Academia Resembles a Drug Gang (Alfonso, 2013)

https://www.reddit.com/r/UrbanHell/comments/aru3rb/empty_streets_of_baltimore_oc/















"if we work the hours stated in our contracts it will be unlikely that we will be able to fulfil our roles and they will therefore potentially cut our pay"















*UCL

Pensions

Staff will lose on average £240,000 in retirement under proposed changes

Pay Inequality

15% Gender Pay Gap at UCL 13% Ethnicity Pay Gap at UCL

Pay Cut

Staff have had 20% pay cut since 2009 in real terms

Casualization/Precarity

1/3 of UK academics on casual contracts

46% of UCL teaching staff on insecure contracts

BME staff are 10% more likely to









#UCUStrike







You











- ~ 35% of women worldwide have experienced either physical and/or sexual violence at some point in their lives
- ~ 137 women across the world are intentionally killed by a member of their own family every day
- ~ 1 in 10 women in the European Union report having experienced cyberharassment since the age of 15

STOP VIOLENCE AGAINST WOMEN











2019 Conference Highlights









What has this got to do with...?

TUESDAY 26TH NOVEMBER - LONDON

Secure Your Place

2019 Conference Highlights

























(SmartSafe, 2014)









survivors from technology-facilitated abuse (Refuge, 2018)







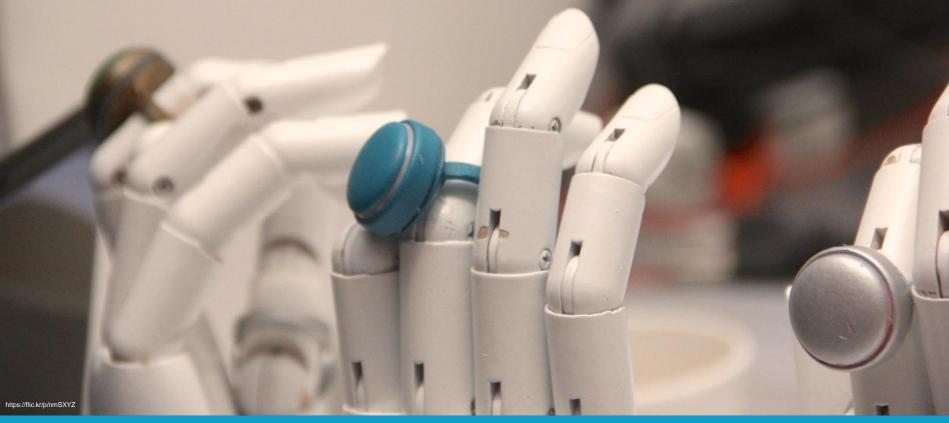








Tech Abuse Research









Online harassment

Cyber stalking

Spyware

Image-based abuse

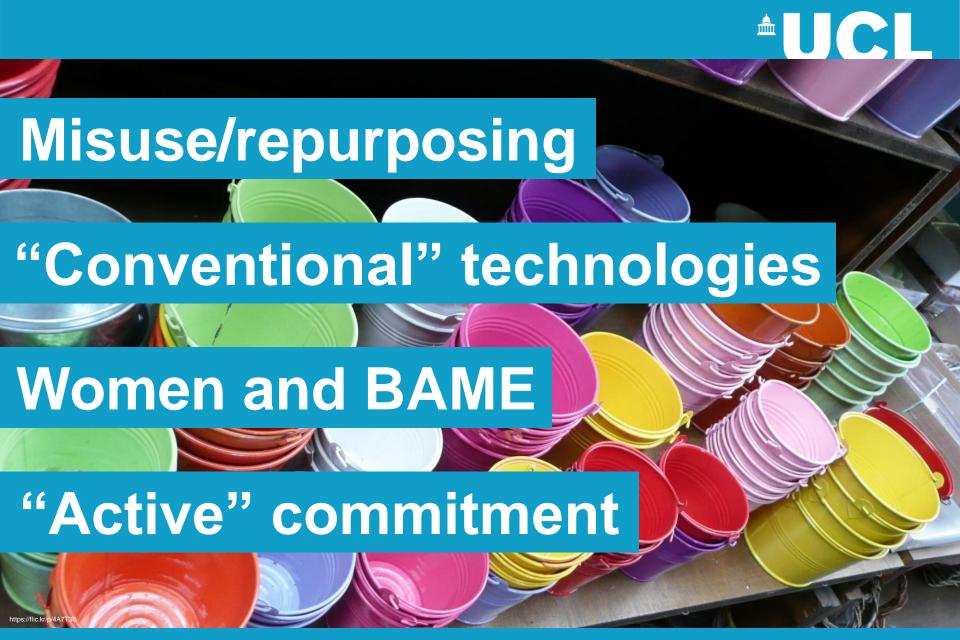


























Internet of Things

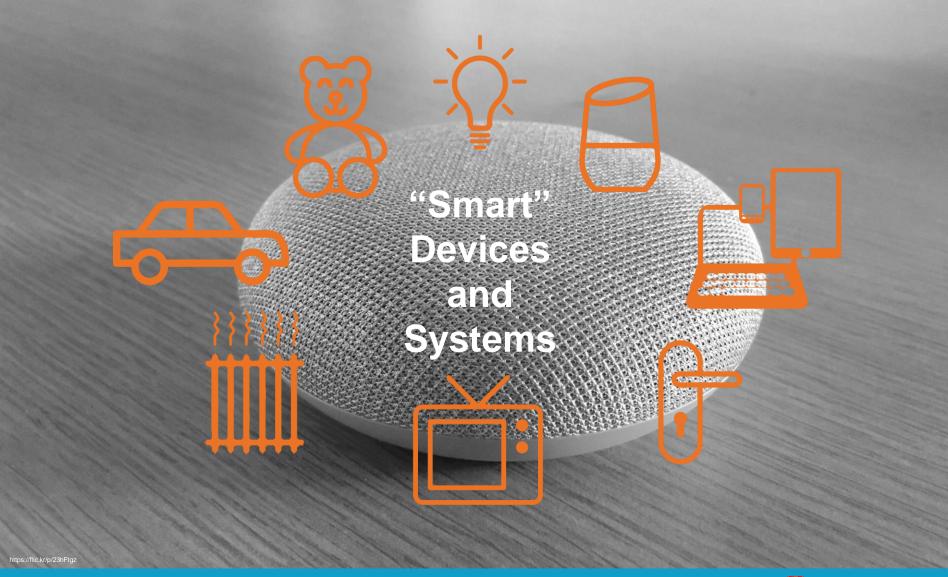


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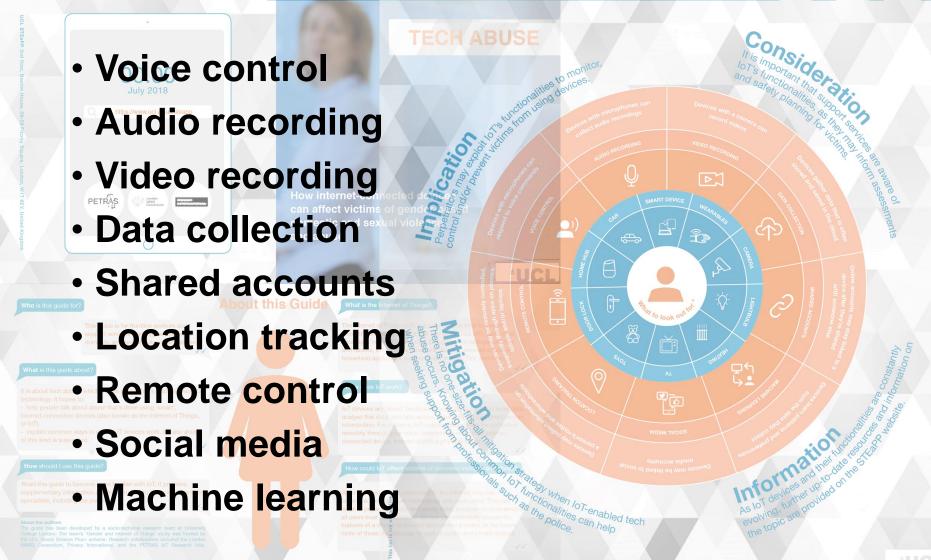
















<u></u> <u> ■UCL</u>



Risks

Uncertainty

Opportunities











ttps://flic.kr/p/PMYmab





A MAN HAS CREATED A MACHINE. NOW THE MACHINE WANTS TO CREATE A MAN . . .



MGM presents a HERB JAFFE PRODUCTION JULIE CHRISTIE in "DEMON SEED" co-starring FRITZ WEAVER Produced by HERB JAFFE Directed by DONALD CAMMELL Screenplay by ROBERT JAFFE, ROGER O. HIRSON Musical Score Composed and Conducted by JERRY FIELDING Filmed in PANAVISION® and METROCOLOR®

MCM DEAD THE CODGLEAPERBACK Distributed by CINEMA INTERNATIONAL CORPORATION &



Tech Abuse - Smart, Internet-connected devices present new risks for victims of domestic violence & abuse

- Wearable devices Could allow perpetrators to track and monitor movements and other behavioural patterns drawing on GPS signals and other collected data
- Phones Could provide perpetrator an access point to control various IoT devices.

Captops and tablets

Accounts between devices are linked and could allow perpetrators to change and review IoT devices' settings via an Internet browser.

Pemote control of heating, lighting and blinds
Could be used to coerce and

Could be used to coerce and intimidate victims by switching systems on or off from afar.

- Audio recording
 Could facilitate
 remote
 monitoring
 and stalking.
- May enable perpetrators to contact the victim as well as trace and review a person's history of commands and purchases.
- O Router Connects all smart home devices to the Internet
- Security cameras and TVs
 Could facilitate remote monitoring
 and online stalking; video recording
 could facilitate image-based abuse
 (such as revenge porn).
- 6 Smart security Could provide access to doors through voice activation, apps, or electronic key codes.







Disguised

Enhanced functionalities

Expanding and exacerbating reach











				[≜] UCL
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3	7,088	212,974	11,414	8,03
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9	220			573,79
3	601,003	445,887	403,117	303,11
15	1,124,427	1,501,082	1,749,822	2,036,720
. 7	180,417	180,417	180,417	180,417
16	89,716	89,716	89,716	89,716







#GloT Team

Leonie Tanczer

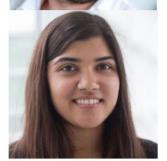


Simon Parkin



George Danezis





Trupti Patel



Isabel Lopez



Julia Slupska











*UCL













Role & Impact







Risk Trajectories

































Prompts and notifications

Logs

IPV threat model

Customer-facing staff guidance

Data collection

https://flic.kr/p/qtyGZf













Technology Will Solve It All!

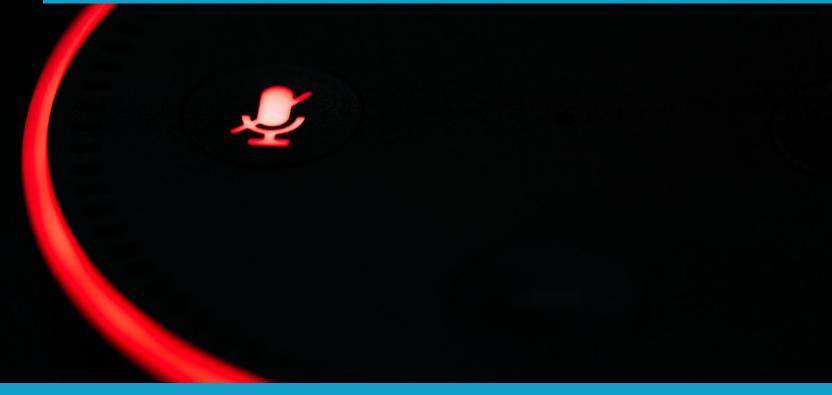








Sorry, I Didn't Catch That







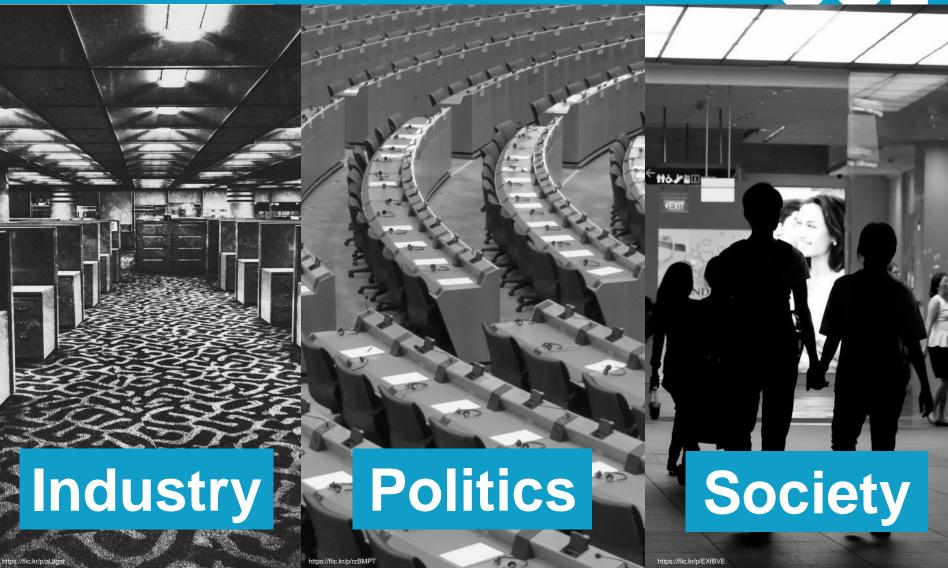








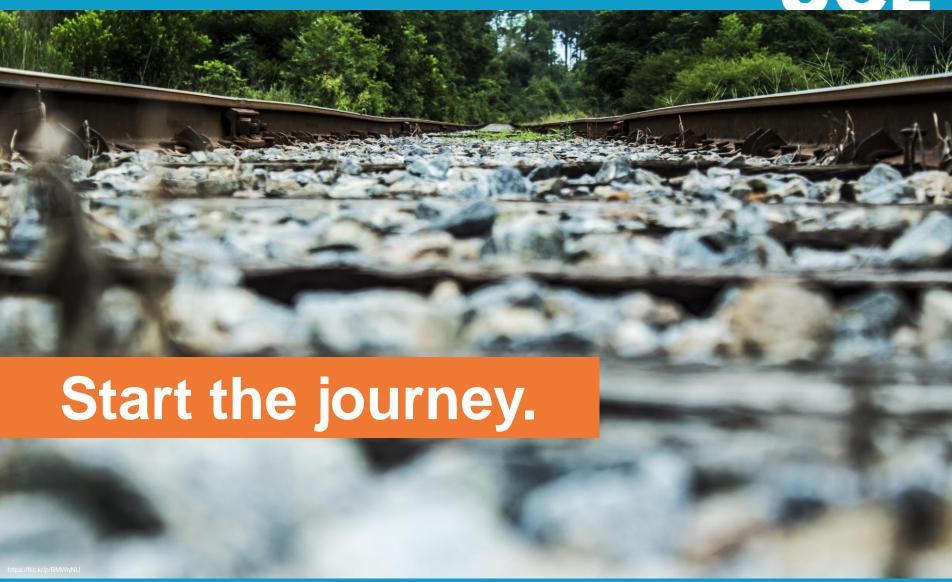


























Thank you.

Dr Leonie Tanczer / @leotanczt

#GloT





@theloTteam // @PortMyData

New device?



But what's going to happen to your data?

What is your right to data portability?



European law may help you to switch devices without losing all your data.

According to Article 20 of the General Data Protection Regulation (GDPR) companies have to send the data you put into your device back to you on request.

This should enable you to send it to another company to put it on to your new device or ask the producer of your old device to send the data to the producer of your new device directly.

Sarah Turner, July Galindo Quintero, Jessica Lis, and Simon Turner



LONDON'S GLOBAL UNIVERSITY







But what about men?!

Curtesy to: https://twitter.com/Wurzelmann/status/1188440432067395585







Well...

Domestic abuse in England and Wales: Year ending March 2018

- In the UK, women are around twice as likely to experience domestic abuse than men.
- The majority of *victims* of domestic homicides were **female** (73%, or 293).
- The vast majority of defendants in domestic abuse-related prosecutions were men (92%).
- Four in five female victims of domestic homicide were killed by a partner or ex-partner (239, 82%); of which the majority of the suspects were male (238).





