



Power & Surveillance

SAE Creative Institute, Perth, Western Australia

5th July 2019



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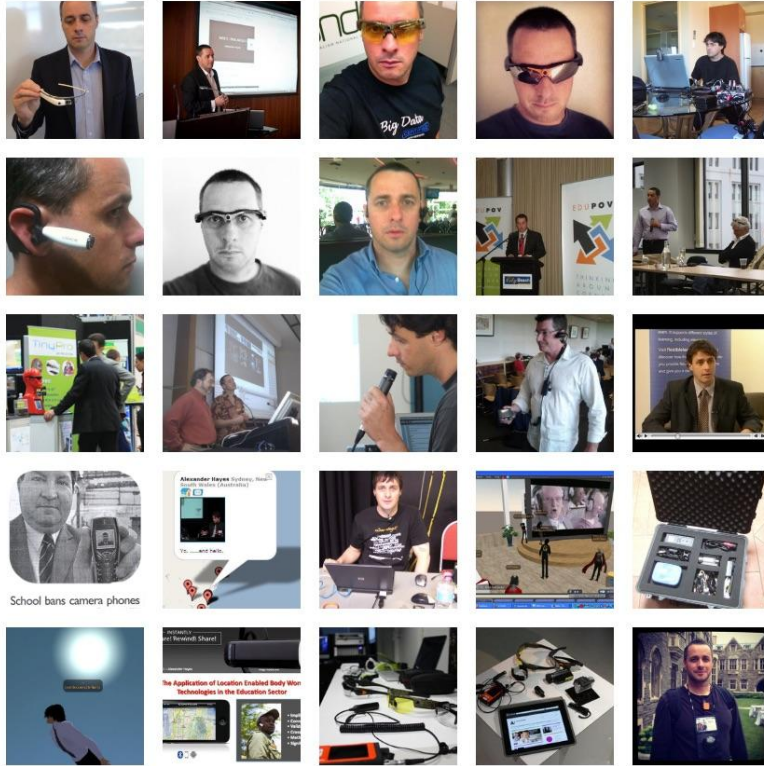
Visiting Researcher
Aalto University, Helsinki, Finland

Acknowledgement of Country

Alexander Hayes acknowledges that this presentation occurred on the Country of the Whadjuk People of the Noongar / Nyungar Nation in Perth, Western Australia. Alexander wishes to acknowledge past, present and future leaders of the Whadjuk People and respect their continuing culture and the contribution they make to the life of this city and this region.

CONSENT

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'The Socioethical Implications of Body Worn Computers: An Ethnographic Study'

- 50 interviews with international leaders - engineering, policing, surveillance studies, national security, cyber-crimes, information systems, education and human computing industry.

privacy, security, society, implications, control, power, place, care, convenience, engineering, corporations, law, regulation, innovation, veillance, wearable computing

BENEFIT

DETRIMENT



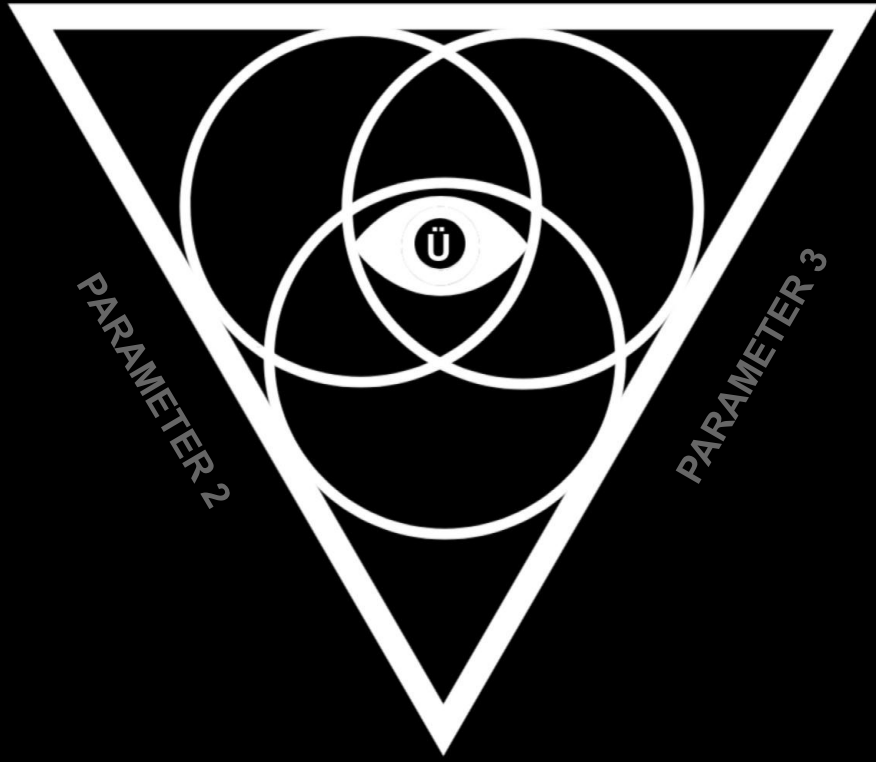
HUMANITY





ARE THE PRODUCT

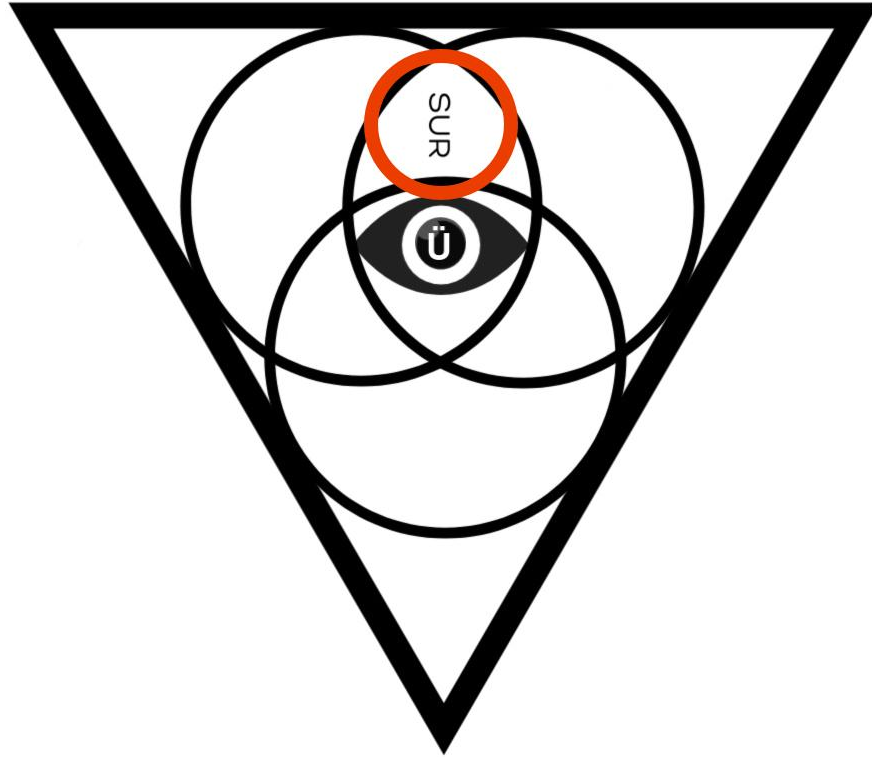
PARAMETER 1



PARAMETER 2

PARAMETER 3

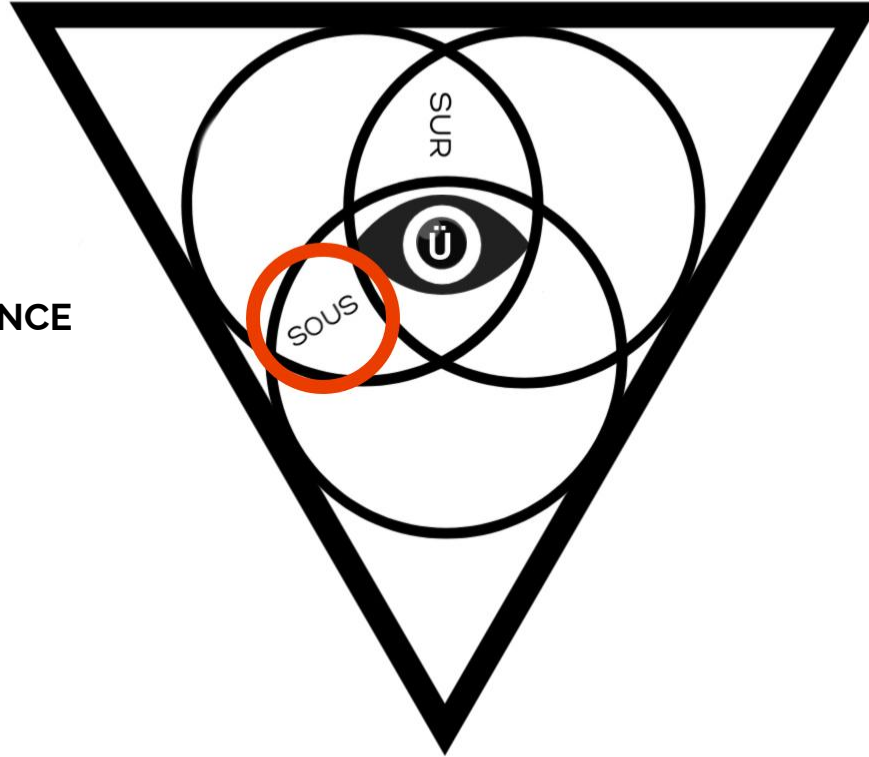
SURVEILLANCE





David Lyon - The Surveillance Studies Centre, Queen's University, Canada

SURVEILLANCE



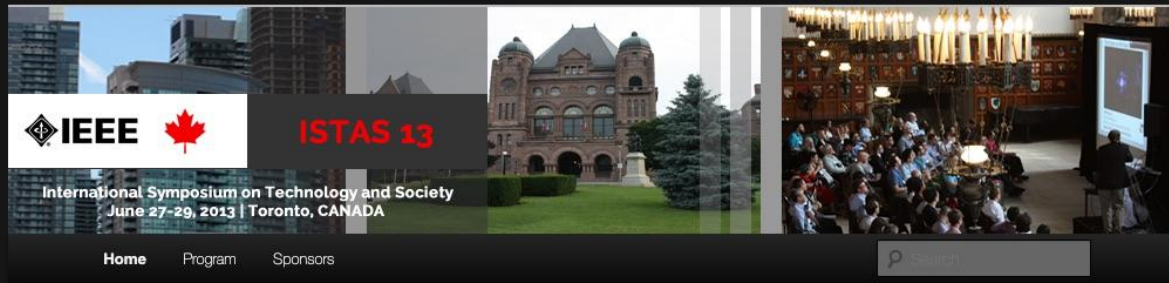
SOUSVEILLANCE





Steve Mann - 'Father Of Wearable Computing' TEDxUTSC





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SEARCH

PROGRAM

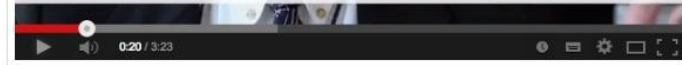


Living in a Smart World – People as Sensors

COMMUNITY



Steve Mann
The Edward S. Rogers Sr. Department of Electrical & Computer Engineering



SPONSORS



IEEE Society on Social Implications of Technology

About

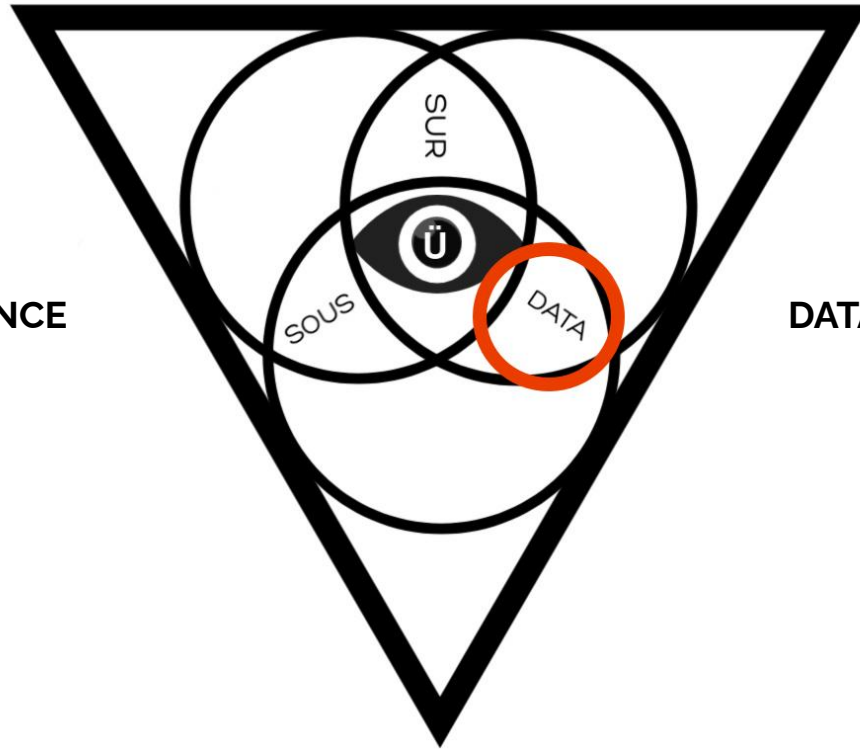
[Download the ISTAS13_Poster](#)

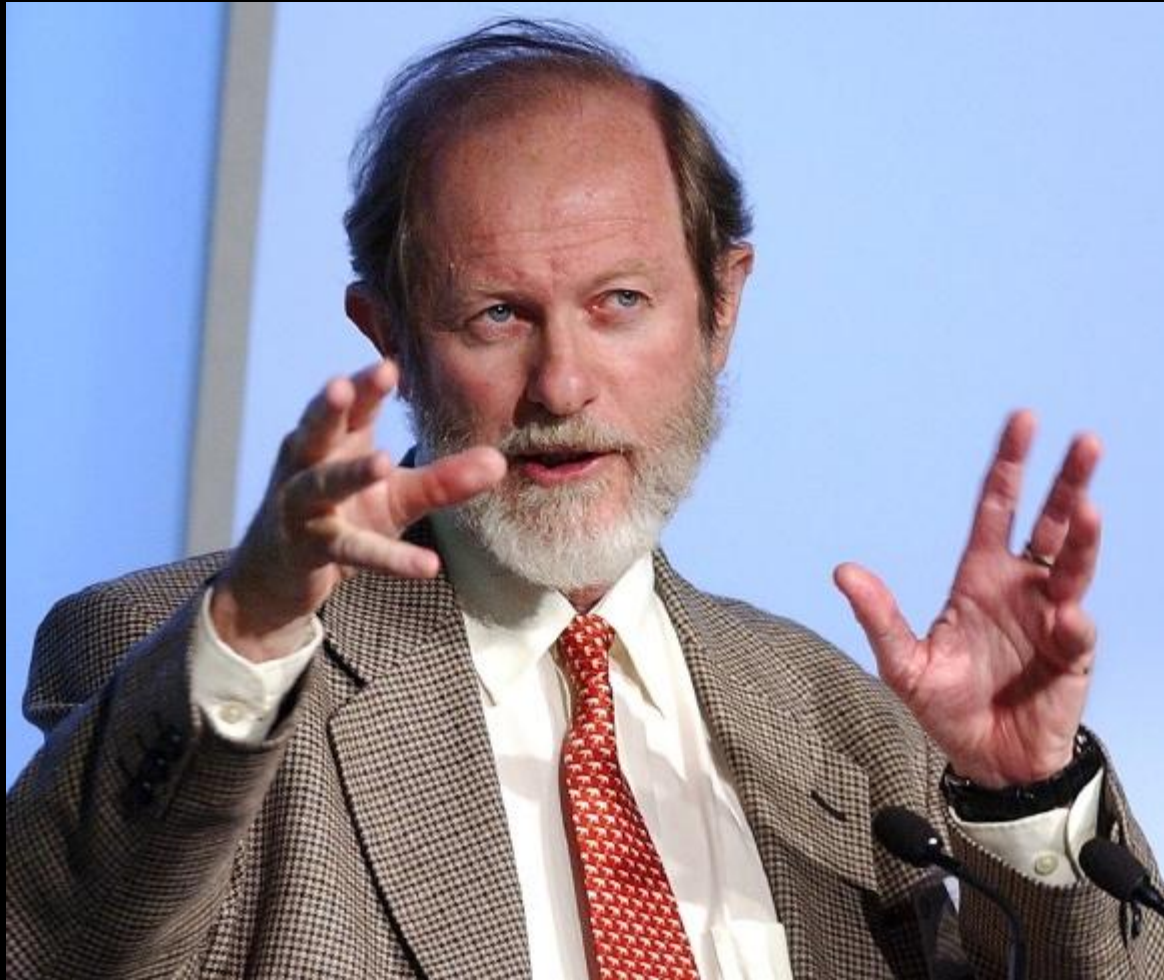
ISTAS'13 presenters and panellists addressed the implications of living in **smartworlds** –

SURVEILLANCE

SOUSVEILLANCE

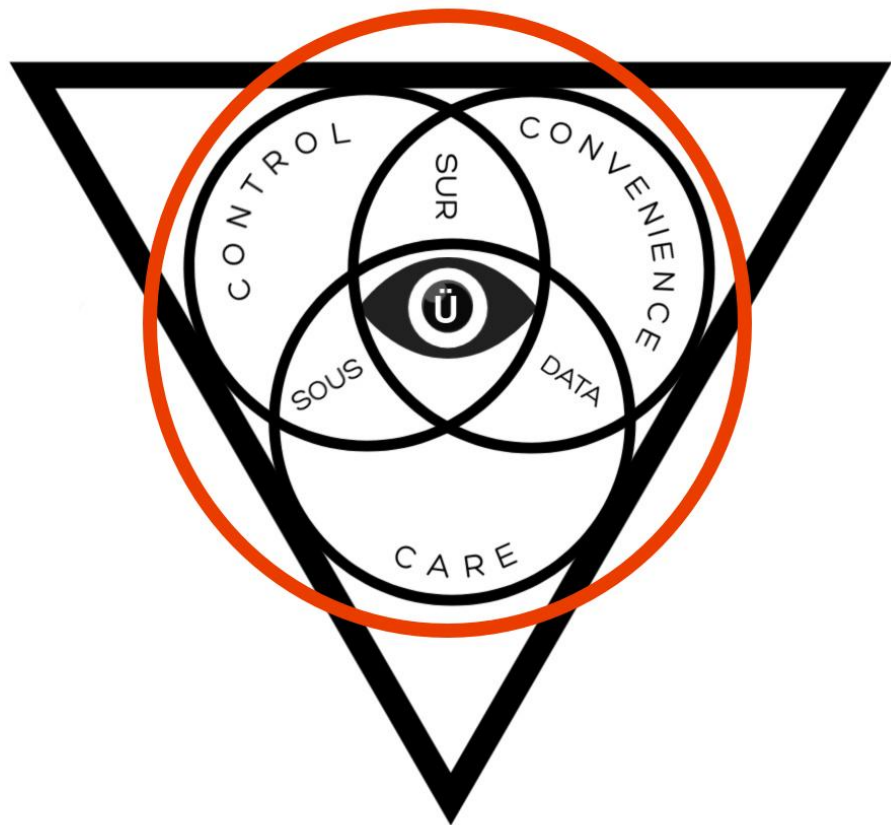
DATAVEILLANCE





“... Dataveillance is the systematic creation and/or use of personal data for the investigation or monitoring of the actions or communications of one or more persons.”

Roger Clarke



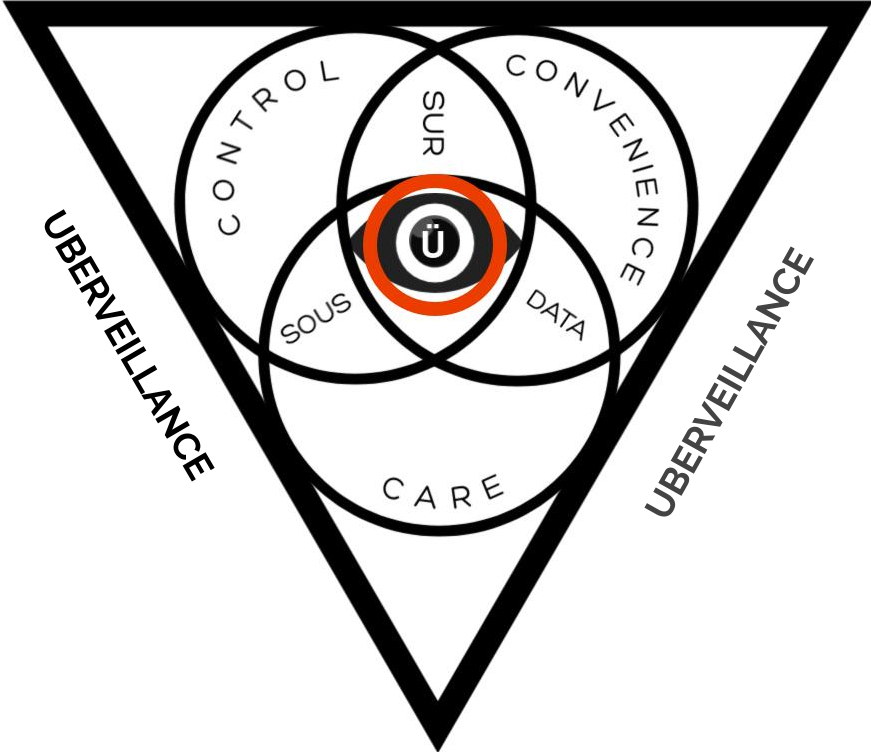


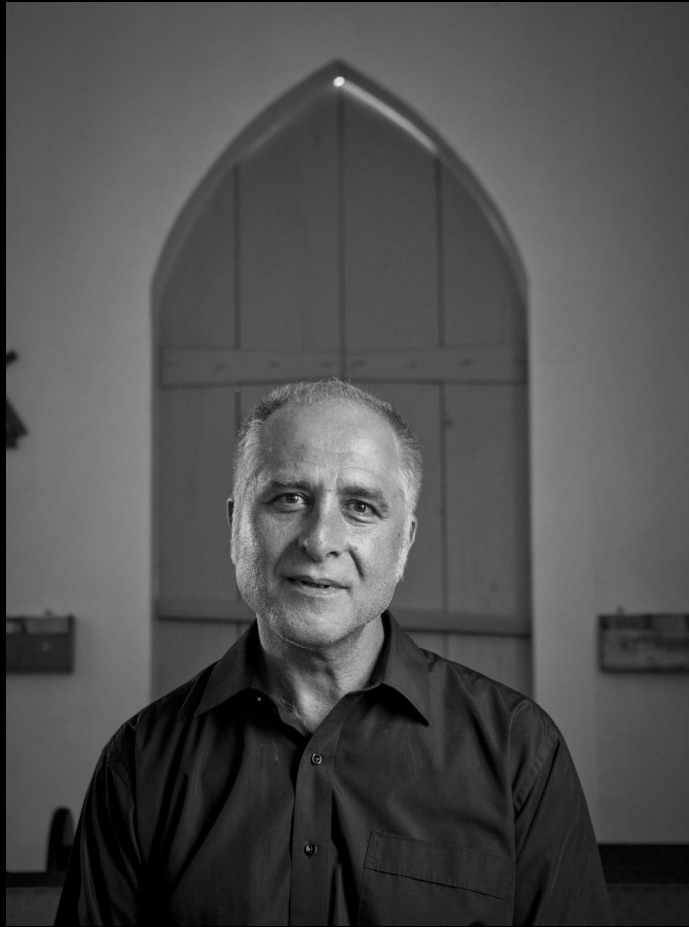
“... Over the past three decades, Radio Frequency Identification (RFID) systems have evolved to become cornerstones of many complex applications. From first beginnings, RFID has been promoted as an innovation in convenience and monitoring efficiencies.”

Masters, A. & Michael, K., 2005. Humancentric Applications of RFID Implants: The Usability Contexts of Control, Convenience and Care. In *Second IEEE International Workshop on Mobile Commerce and Services*. The Second IEEE International Workshop on Mobile Commerce and Services. IEEE, pp. 32–41. Available at: <http://dx.doi.org/10.1109/WMCS.2005.11>.

Katina Michael

UBERVEILLANCE





“... **überveillance** *noun*. an omnipresent electronic surveillance facilitated by technology that makes it possible to embed surveillance devices in the human body.”

M.G. Michael and K. Michael (2009). "Überveillance: Definition" in ed. S. Butler, Fifth Edition of the Macquarie Dictionary (Australia's National Dictionary, Sydney University), p. 1094

M.G. Michael



Photo: <https://bit.ly/2Xc6LjV>



INTERNET OF US

With thousands of global Biochip installs Biohax is the global market leader of installing NFC technology into the human body.

Biohax have installed thousands of professionals world wide in the *financial, healthcare, government, science, and technology* sectors. Biohax have enabled their carriers to increase their security in the digital world, provide 100% identification clearance, and unlimited seamless experiences with their connected surroundings.

GET CHIPPED!

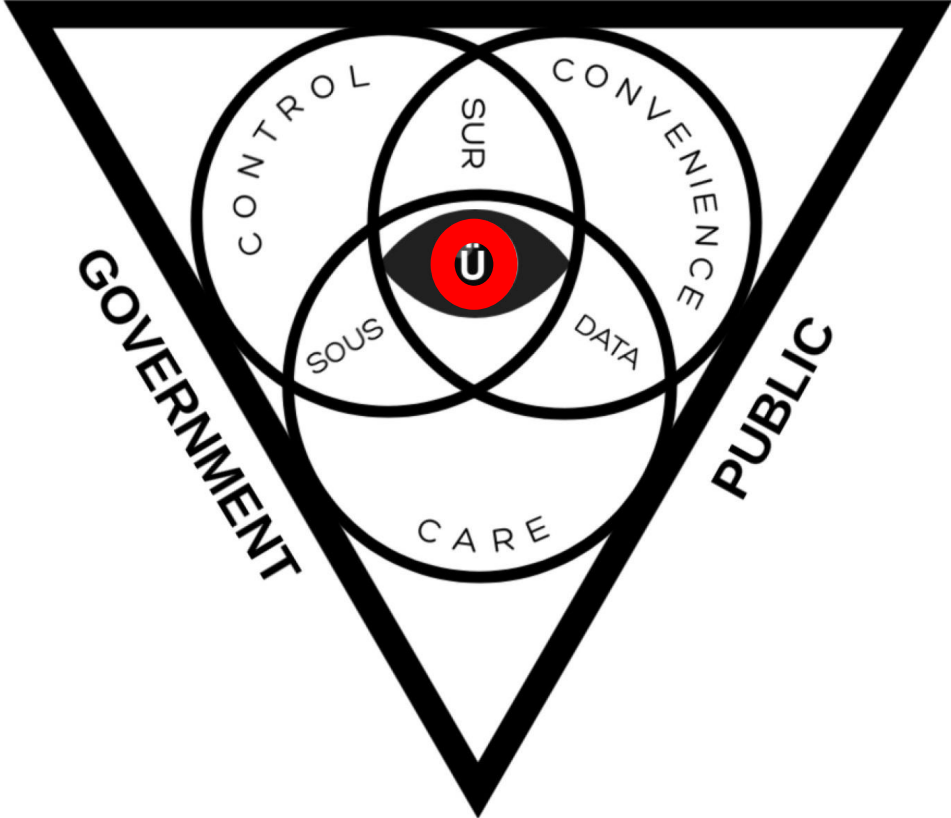




BY WEIGHT

privacy surveillance tracking uberveillance implants
technology RFID data security control drones monitoring
sensors police wearables Google children camera
sousveillance society google GPS health addiction
screen culture surveillance_state ethics people robots law
wearable ID implantables innovation surveillance_society
implant spying analytics recording glass facebook humanity
big_data Google_Glass human identity culture
microchip_implant brain cyborg future social_implications
dataveillance location video chip_implants cameras
government power body convenience humans medical
manipulation NFC social_media education watching intelligence
robotics smartphone advertising data mining evidence
relationships pov embedded access veillance microchips war
smartphones biometrics consumers gaming social_media
wearable-camera lifelogging chips reality physical internet media
apps surveillance_devices futures digital military NSA
consequences

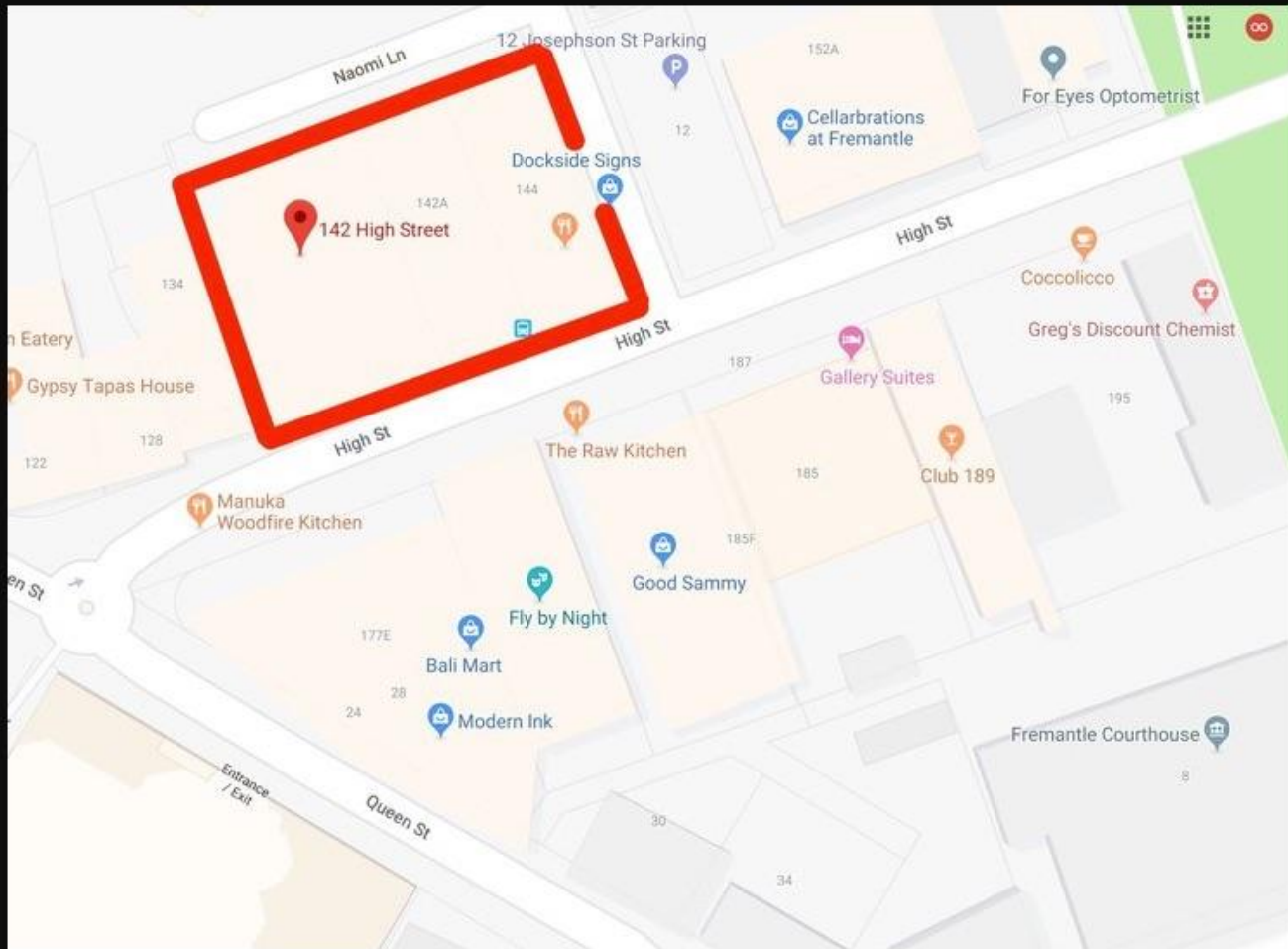
CORPORATIONS

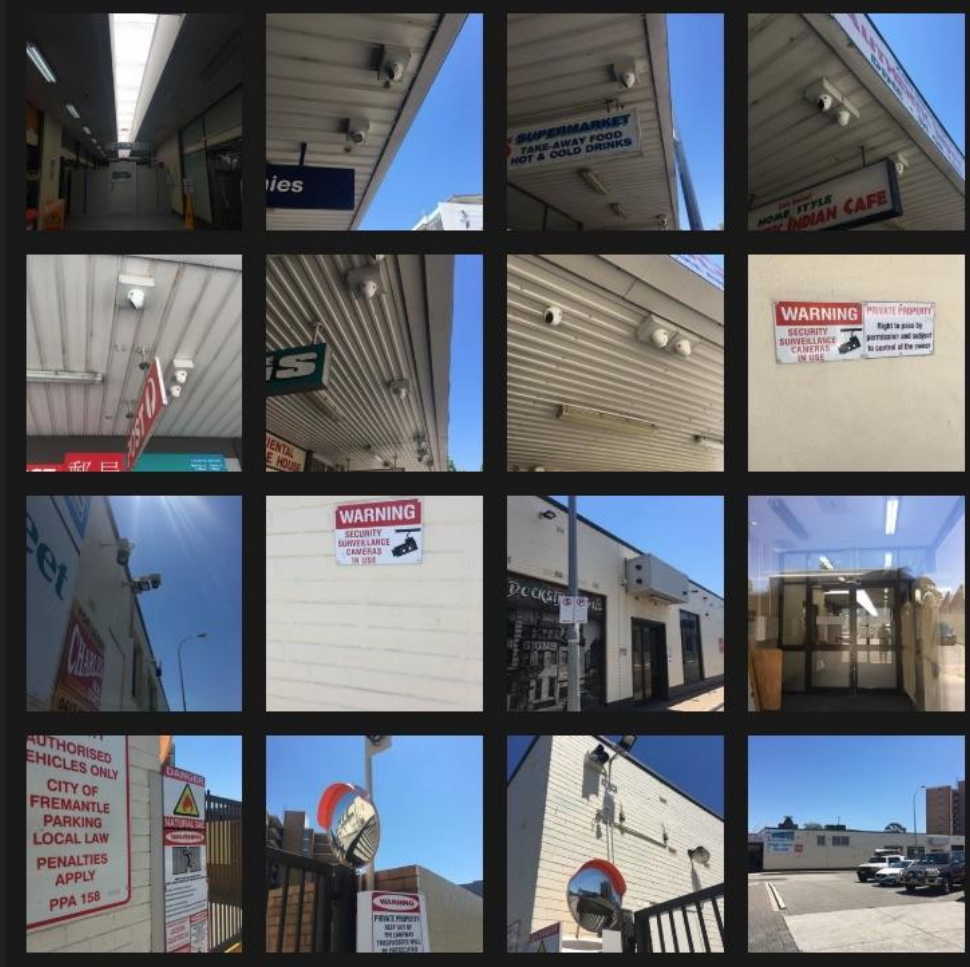


Case Study 1

'Right To Pass'

142 High Street, Fremantle
Western Australia





Case Study 2

'Perth City Watch'

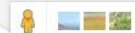
Perth,
Western Australia

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See travel times, traffic and nearby places



Google

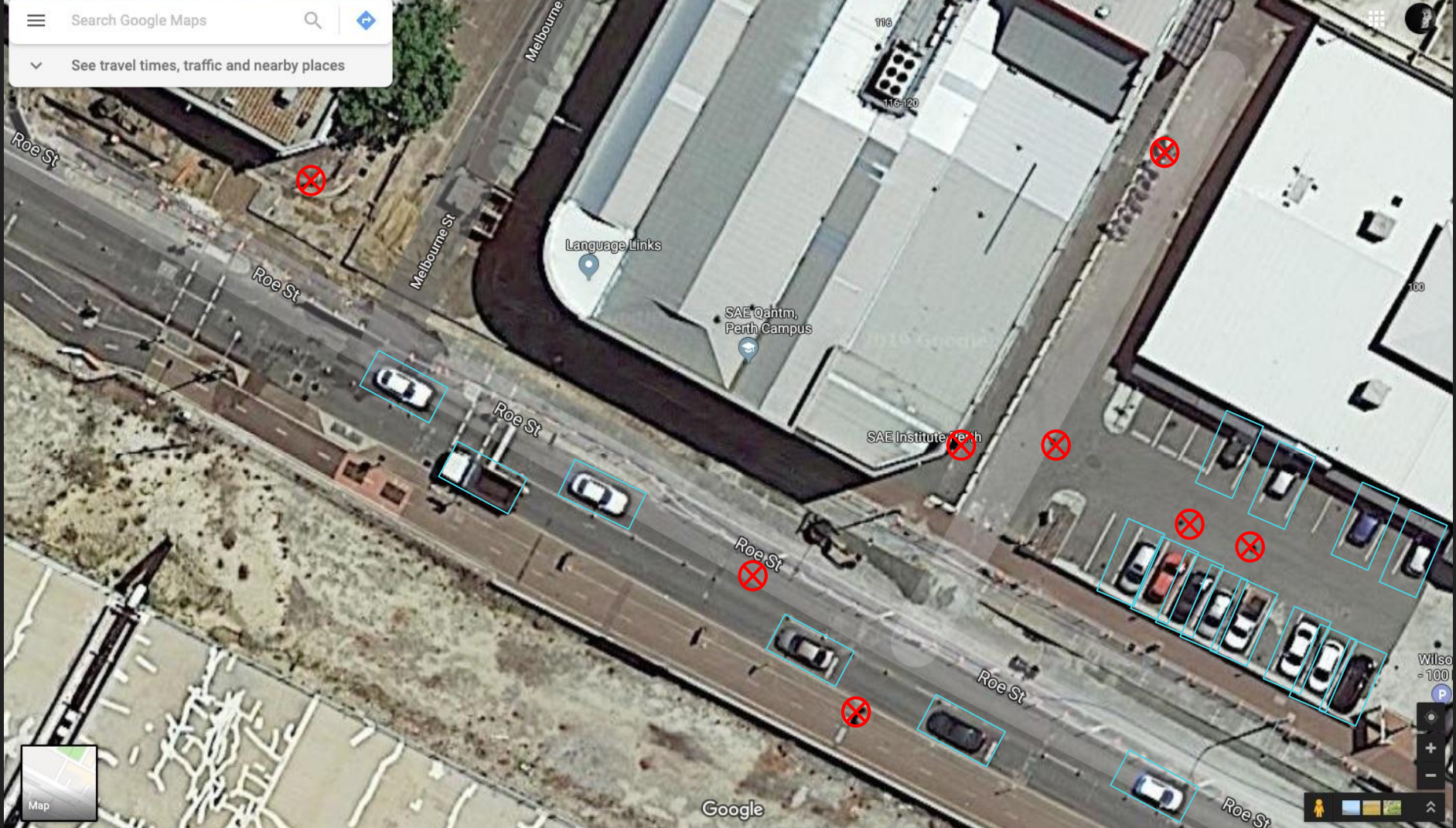




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Language Links

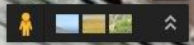
SAE Qantm, Perth Campus

SAE Institute Perth

Map

Google

Wilson - 100
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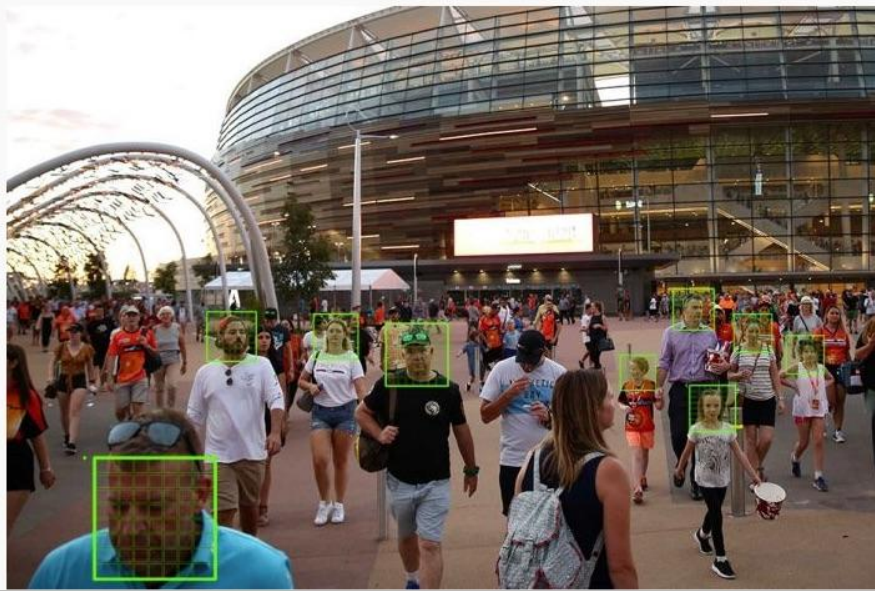
BREAKING NEWS US President Donald Trump and North Korea's Kim Jong-un will meet at the Korean demilitarised zone this afternoon [Read more...](#)

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City of Perth rolls out new facial recognition CCTV cameras, but is it surveillance by stealth?

By [Rebecca Turner](#)

Updated 8 Jun 2019, 12:21pm



Technology

Want to upgrade your phone? Here's how Trump could affect the price

Why are millions of Chinese people trying to get back inside Beijing's digital firewall?

Apple shares dive as chief designer leaves after 30 years to start his own firm



Science News

Recyclers tackle growing farm waste problem with innovative plastic products

Fast radio bursts are incredibly brief and violent — and now we know where one of them came from

Vegan crocs? Unusual teeth suggest ancient crocs were at the bottom of the food chain

Perth council facial recognition trial greeted with concern and scepticism

Residents 'in disbelief' at alleged lack of consultation over installation of facial recognition technology in East Perth cameras



▲ Perth City council's trial of facial recognition technology has sparked complaints of a lack of consultation.
Photograph: Andriy Popov/Alamy




Case Study 3

'Body Worn Cameras'

Perth,
Western Australia



 City of Perth officers with new body cameras they will wear when out on duty. Picture: Nic Ellis.

WA NEWS

Perth parking inspectors fitted with body cameras

Dylan Caporn, PerthNow

August 22, 2017 6:00am



Commissioner acts to give WA Police body-worn cameras

Gabrielle Knowles, Chief Crime Reporter | The West Australian

Thursday, 9 August 2018 2:01AM



Body-worn video cameras will be introduced early next year after Commissioner Chris Dawson decided not to wait for State Government funding for the technology



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Oh no! We couldn't find what you're looking for.

Try searching the website or choose a popular link below.

Search >

“... You began your query with a question about why there is little or no accessible information on the City of Perth website detailing the use, type, intent and governance of the Body Worn Camera technology currently being employed. **We are not required to provide this information on our website for public access as the purpose of deploying the Body Worn Cameras is primarily for our staff safety in line with our responsibilities guided by the Occupational Health and Safety Act 1984.**”

Email correspondence - Jan 14, 2019 - 1:45 PM - **Kylie Taylor, Perth City Council**, Business Operations Officer, Parking Services Unit



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Body worn cameras to be deployed to frontline officers

Saturday, 23 March 2019

- Stage one of State-wide rollout of body worn cameras launched
- Strengthening community safety and improving accountability for police

Police Minister Michelle Roberts today announced stage one of a State-wide rollout of body worn cameras to frontline police officers.

Priority deployment for the first tranche of 4,200 body worn cameras will be officers in the Perth District and those attached to the Traffic Enforcement Group.

Officers in the Pilbara region will be among the first in regional Western Australia to be fitted with the cameras, with more than 200 cameras being deployed to the region by June.

The delivery of body worn cameras to all frontline officers is scheduled to be completed by June 2021, with more than 4,000 cameras deployed across the State.

The devices will capture real-time audio and video, strengthen community safety, and improve transparency and accountability in police interactions with the public.

There will be a comprehensive training package for staff.

The rollout is backed by the McGowan Government's \$1.4 billion Community Safety Commitment to give the WA Police Force the resources they need to help keep the community of Western Australia safe.

Comments attributed to Police Minister Michelle Roberts:

"The WA Police Force is joining other States in Australia in rolling out this important equipment for police.

"It will provide greater transparency and greater protection to both police and members of the community.

"Commissioner Dawson has acted swiftly to equip our officers with this cutting-edge technology which will capture real-time video evidence of the scene of an incident.

"It's also hoped the new technology will help reduce assaults on officers and increase the number of early guilty pleas."



Hon Michelle Roberts BA DipEd
MLA
Minister for Police; Road Safety



Life Inside China's Total Surveillance State

Religion - TR
 Rape victim - AF
 Into dieting - AF
 Into gardening - FG
 Number of online friends - 1265
 Number of real friends - 89
 IQ - 112
 Political views - JU
 Gullibility - JH
 Projected sexual orientation - VB
 Real sexual orientation - NY
 Reads magazines on travel
 Reads books on travel - AF
 Planning to have a baby - N/A
 Communication device - Android
 Has house plants - AF
 Neuroticism - AF
 Openness - GH
 Date of Birth - 20/04/1986
 Into Fashion - AF
 Parents divorced age of 21 - BN
 Economic stability - YT
 Potential inheritor - GH
 Extraversion - AF
 Agreeableness - HJ
 Year house built - N/A
 Smoker in the household - AF
 Has 'diabetic focus' - NM
 Easily addictable - LK
 Physical frailty - VB
 Gun owner - AF
 Education level - 12
 Runs marathons - AF

SENSEGO

消费场景智能识别解决方案

■ 2016-10-02 ■ 2016-10-01 ■ 2016-09-30 ■ 2016-09-29 ■ 2016-09-28 ■ 更早

■ 入口区



■ 入口区



■ 购物区



■ 服务区

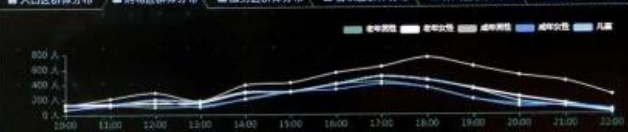


■ 2016-10-02 ■ 2016-10-01 ■ 2016-09-30 ■ 2016-09-29 ■ 2016-09-28 ■ 更早

■ 数据统计

	全景	入口区	购物区	服务区	餐饮区	休闲区	娱乐区
今日累计人数	3720	3720	312	484	364	2237	323
平均停留时长	105分钟	10分钟	23分钟	30分钟	40分钟	20分钟	10分钟

■ 入口区群体分布 ■ 购物区群体分布 ■ 服务区群体分布 ■ 餐饮区群体分布 ■ 休闲区群体分布 ■ 娱乐区群体分布



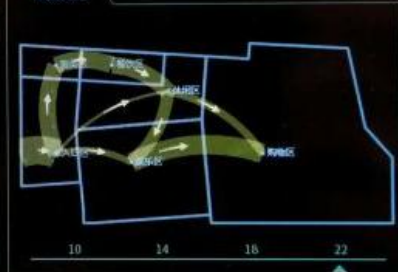
■ 群体停留时间



■ 购物区

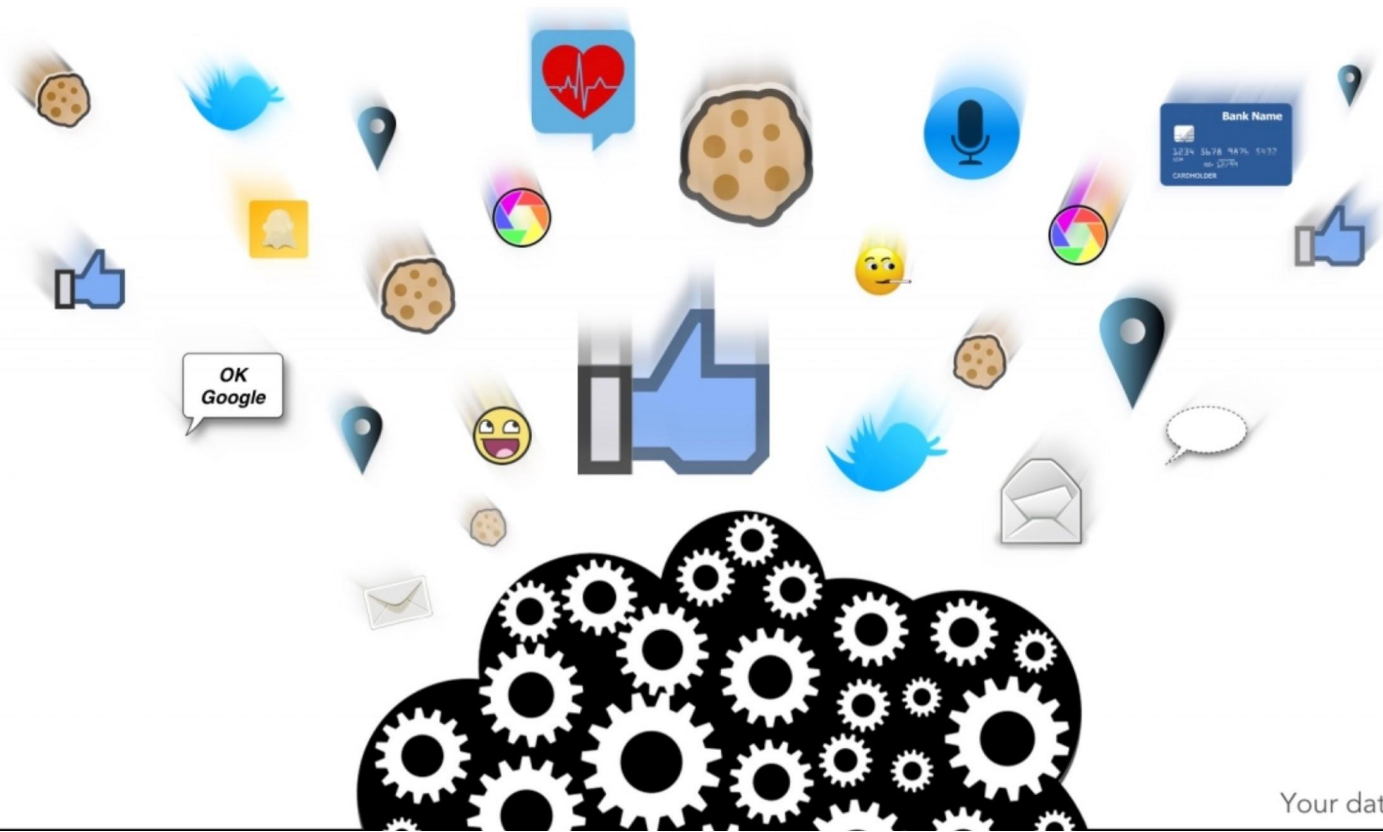


■ 群体轨迹



D1

DIGITAL FRONTIER



Your data

Their data





"... If you have something that you don't want anyone to know, maybe you shouldn't be doing it in the first place, but if you really need that kind of privacy, the reality is that search engines including Google do retain this information for some time, and it's important, for example that we are all subject in the United States to the Patriot Act. It is possible that that information could be made available to the authorities."

Eric Schmidt - Former CEO, Google Inc.



“... Arguing that you don't care about the right to privacy because you have nothing to hide is no different than saying you don't care about free speech because you have nothing to say.”

Edward Snowden



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Digital Rights Watch

Standing up for the digital rights of Australians

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The leading nonprofit defending digital privacy, free speech, and innovation.



FEATURED UPDATE

Social Media Platforms Increase Transparency About Content Removal Requests, But Many Keep Users in the Dark When Their Speech Is Censored, EFF Report Shows



FEATURED UPDATE

Congress Should Not Rush to Regulate Deepfakes



FEATURED UPDATE

During Pride Month and Always, Companies Must Consider the Impact of Their Policies on LGBTQ+



Defending your right to control your personal information

Campaigns

[VIEW ALL CAMPAIGNS](#)

[My Health Record](#)

This is the latest brand name for the Australian government-controlled online copy of parts of your health information. From 2012 until 2015 it was called the 'Personally-Controlled Electronic Health Record' (PCEHR). It is not designed for patients, and it is not designed for health care professionals. And it's being foisted on you.

[The 2016 Census](#)

APF led the fight against the retention of identifiers with Census data. The ABS conducted an internal assessment, avoided engaging with the public, ignored the evidence provided to it, implemented a system with abysmal security precautions, crashed on Census night – yet no-one was sacked.

[Australia Card \(again\)](#)

The descendants of the public servants who tried to impose the Australia Card scheme in 1987 keep trying to achieve the same result. The Access Card, the mygov Portal, and national document and photograph 'verification' services are just some of the attempts that the APF has worked to defeat.

A person is standing on a rocky peak, looking out over a vast mountain range. The sky is blue with scattered white clouds. The text "Privacy is the right to be imperfect" is overlaid in white.

Privacy is
the right to be imperfect

A person in silhouette is shown from the back, holding a blue smoke bomb aloft in their right hand. The smoke bomb is emitting a cloud of blue smoke that fills the upper portion of the frame. The background is a dark, textured blue. The text is overlaid in the center in a white, sans-serif font.

**Privacy is
the right to
be human**

References

Title Slide - Figure: 'New World Order' - Alexander Hayes, 2019

Slide 2 - Invited Speaker - <http://www.alexanderhayes.com>

Slide 3 - Acknowledgement of Country - <http://www.noongar.org.au/noongar-protocols>

Slide 4 - Consent

Slide 5 - The Socioethical Implications of Body Computers: An Ethnographic Study' - <https://www.alexanderhayes.com/journal/phd-research-summary>

Slide 6 - Benefit | Detriment

Slide 7 - Humanity (Icon: <https://www.freepik.com/>)

Slide 8 - 'U' Are The Product - Figure: 'New World Order' - Alexander Hayes, 2019

Slide 9 - Parameters - Figure: 'New World Order' - Alexander Hayes, 2019

References

Slide 10 - '*Surveillance*' - Figure: 'New World Order' - Alexander Hayes, 2019

Slide 11 - David Lyons - <https://www.youtube.com/watch?v=KWPOyuoF7oA&>

Slide 12 - '*Sousveillance*' - Figure: 'New World Order' - Alexander Hayes, 2019

Slide 13 - Steve Mann - <https://spectrum.ieee.org/geek-life/profiles/steve-mann-my-augmediated-life>

Slide 14 - Steve Mann - TEDxUTSC - <https://youtu.be/Z9qiWqRPrw>

Slide 15 - Gordon Bell: https://en.wikipedia.org/wiki/Gordon_Bell#/media/File:Gordon_Bell.jpg

Slide 16 - IEEE ISTAS'13 Conference Website - <http://sites.ieee.org/istas-2013/>

Slide 17 - '*Dataveillance*' - Figure: 'New World Order' - Alexander Hayes, 2019

References

Slide 18 - '*Dataveillance*' - <http://www.rogerclarke.com/DV/DVR.html>

Slide 19 - '*Care, Convenience, Control*' - Figure: 'New World Order' - Alexander Hayes, 2019

Slide 20 - Katina Michael - '*Care, Convenience, Control*' - <http://dx.doi.org/10.1109/WMCS.2005.11>

Slide 21 - '*Uberveillance*' - Figure: 'New World Order' - Alexander Hayes, 2019

Slide 22 - '*Uberveillance*' - M.G. Michael - <http://uberveillance.com/definition>

Slide 23 - RFID Implant - Photo: <https://bit.ly/2Xc6LjV>

Slide 24 - Biohacking - <https://www.biohax.tech/>

Slide 25 - Uberveillance - '*Themes*' - <http://uberveillance.com/themes>

References

Slide 26 - '*Corporations, Government, Public*' - Figure: 'New World Order' - Alexander Hayes, 2019

Slide 27 - Case Study 1 - '*Right To Pass*' - 142 High Street, Fremantle, Western Australia

Slide 28 - Case Study 1 - '*Right To Pass: Map*' - 142 High Street, Fremantle, Western Australia

Slide 29 - Case Study 1 - '*Right To Pass: Photos*' - 142 High Street, Fremantle, Western Australia

Slide 30 - Case Study 2 - '*Perth City Watch*' - Perth, Western Australia

Slide 31 - Case Study 2 - '*Perth City Watch: Map*' - Perth, Western Australia

Slide 32 - Case Study 2 - '*Perth City Watch: Satellite*' - Perth, Western Australia

Slide 33 - Perth City Council Facial Recognition Cameras -

<https://www.abc.net.au/news/2019-06-08/city-of-perth-rolls-out-new-facial-recognition-cctv-cameras/11147780>

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Slide 34 - Perth City Council Facial Recognition Cameras -

<https://www.theguardian.com/technology/2019/jun/12/perth-councils-facial-recognition-trial-accused-of-blanket-surveillance>

Slide 35 - Citywatch -

<https://www.abc.net.au/news/2019-06-08/officer-monitors-citywatch-cctv-surveillance-cameras-1/11191026>

Slide 36 - Case Study 3 - '*Body Worn Cameras*' - Perth, Western Australia

Slide 37 - Perth City Council -

<https://www.heraldsun.com.au/news/national/perth-parking-inspectors-fitted-with-body-cameras/news-story/36ee278fd66dcfa8fb103d90e1ec2628>

Slide 38 - WA Government -

<https://www.mediastatements.wa.gov.au/Pages/McGowan/2019/03/Body-worn-cameras-to-be-deployed-to-frontline-officers.aspx>

Slide 39 - City of Perth - 'Page missing' -

<https://www.perth.wa.gov.au/newsroom/featured-news/body-cameras-promote-safer-community>

References

Slide 40 - Email Correspondence - Kylie Taylor, Perth City Council

Slide 41 - The West -

<https://thewest.com.au/news/crime/commissioner-acts-to-give-wa-police-body-worn-cameras-ng-b88921149z>

Slide 42 - Life Inside China's Total Surveillance State - <https://youtu.be/OQ5LnY21Hgc>

Slide 43 - China's Social Credit System -

<https://www.abc.net.au/news/2018-03-31/chinas-social-credit-system-punishes-untrustworthy-citizens/9596204>

Slide 44 - '*Your Data*' - <http://www.socialcooling.com>

Slide 45 - '*Their Data*' - <http://www.socialcooling.com>

Slide 46 - '*Nothing To Hide*' - https://en.wikipedia.org/wiki/Nothing_to_hide_argument -

https://en.wikipedia.org/wiki/Eric_Schmidt#/media/File:Eric_Schmidt_at_the_37th_G8_Summit_in_Deauville_037.jpg

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Slide 47 - '*Nothing To Hide*' - https://en.wikipedia.org/wiki/Nothing_to_hide_argument

Slide 48 - '*Digital Rights Watch*' - <https://digitalrightswatch.org.au/>

Slide 49 - '*EFF*' - <https://www.eff.org/>

Slide 50 - 'APF' - <http://www.privacy.org.au>

Slide 51 - 'Privacy Is The Right To Be Imperfect' - <http://www.socialcooling.com>

Slide 52 - 'Privacy Is The Right To Be Human' - <http://www.socialcooling.com>