

Surveillance seminar notes:

Todd Chavez - FBI Deputy head of surveillance

New technology = new surveillance methods

Facial recognition:

AI driven

Finding faces is easy, recognising faces is a different challenge, but quite reliable now

China leading the way, but not for long, US “supremacy” in the field is around the corner

London well suited for it given the large number of CCTV cameras already around

Helps track people more effectively, can interpolate their movements in-between and find camera footage that matches their presumed path, even from private sources

Stands up well in court, works well with juries

Voice recognition:

Good for phone and overhearing

Old government plan to hid microphones in lamppost to listen to terrorists (silly idea!)

Best modern use is for body cameras, where faces might get cut out of frame if the perp is close to you/the camera (or any camera at chest height?)

Stands up well in court, works less well with juries depending on the accent recorded

Gait recognition:

You can recognise someone from the way they walk, its like a physical fingerprint

Great if you can't see their face or hear their voice/record their voice on CCTV

Surprisingly, has been used to successfully prosecute with jury in the states several times, but with very distinctive walks

However, AI powered versions revery good at detecting gait accurately, so this may be used more in the future

Might be good to talk to Harmon about investing in this???

Wifi 3D modeling:

Modelling bodies inside a house using Wifi signal fluctuations and AI body models?

I didn't really understand this, sorry, sounds a bit scary though imho