

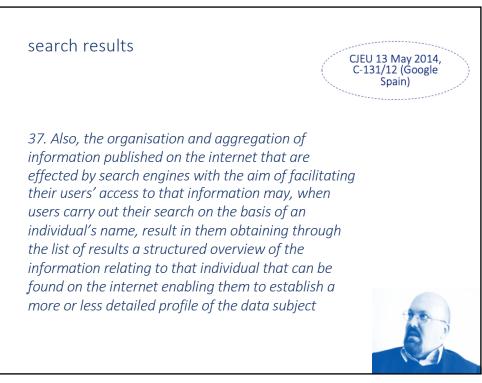


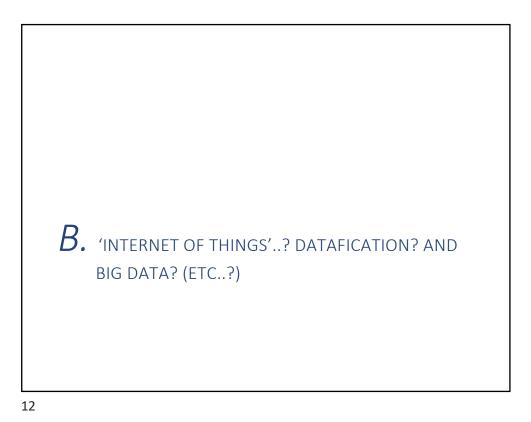


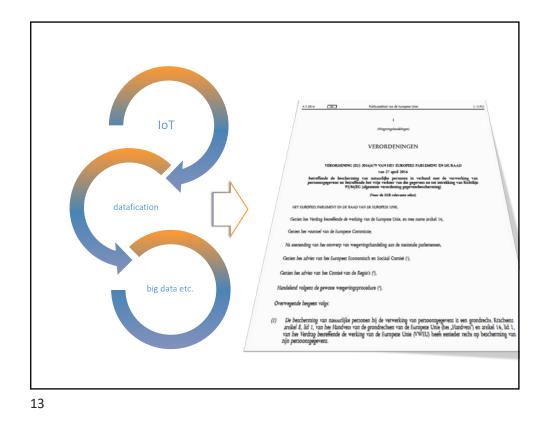
'online profiling or behavorial advertizing'
advertising based on observation of behavior of individuals over time
seeks to study characteristics of this behaviour through actions
to develop a specific profile and provide these individuals with advertisements tailored to their interests

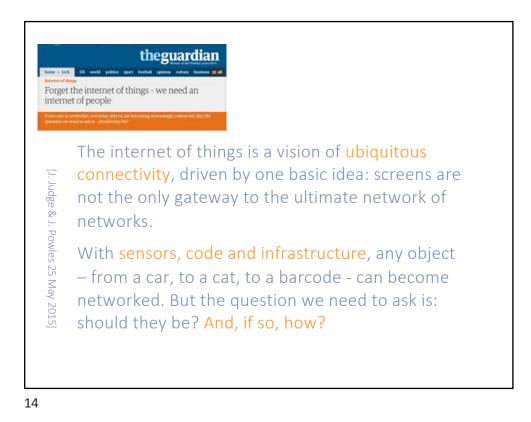
9

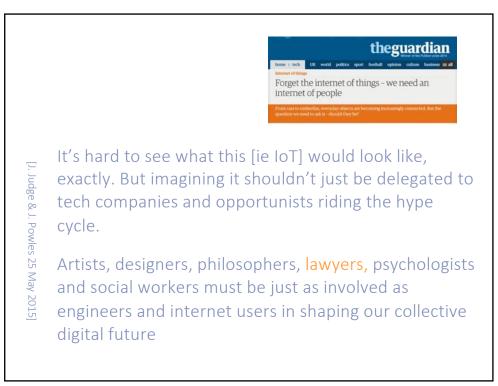
ethnic profiling stopping or detaining the driver of a vehicle based on the determination that a person of that race, ethnicity, or national origin is unlikely to own or possess that specific make or model of vehicle stopping or detaining an individual based on the determination that a person of that race, ethnicity, or national origin does not belong in a specific part of town or a specific place

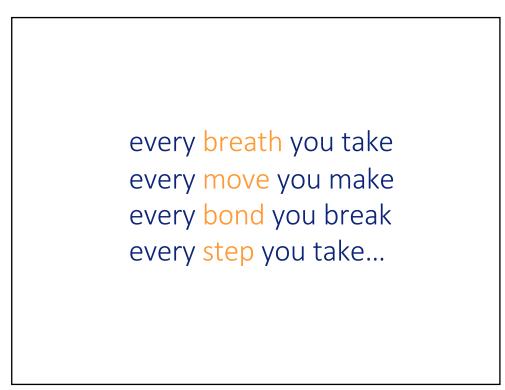










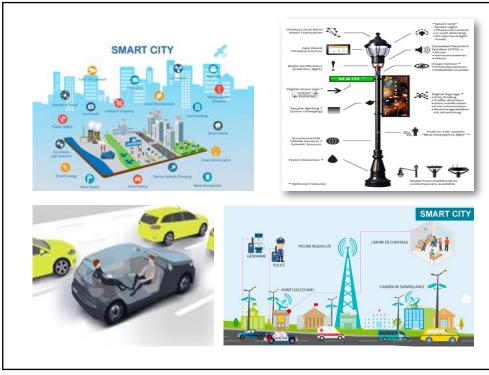












SINGAPORE. **'Smart lamp posts' in Singapore** won't shine light into people's lives

An ambitious project is underway to equip lamp posts in Singapore with various capabilities to improve urban planning serving to be more than just a light source.

For example, environmental sensors could potentially be added to monitor rainfall, humidity and temperature, and noise sensors to detect unusually loud sounds, such as a person screaming or a car

crash.

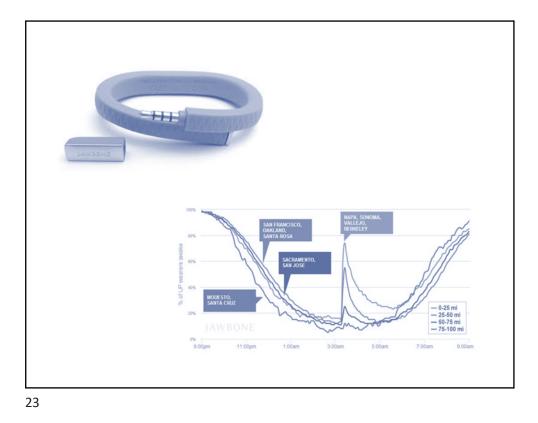
With video sensors, it would be possible to incorporate facial recognition systems. Navigational beacons could also be mounted to direct autonomous vehicles while speed-trap sensors could be used to track speeding bicycles or personal mobility devices. "The whole point of the sensor platform is to look at improving services, look at *how to run the city and operate the city better* and how to plan the city better. We have no plans to do moral policing or things like that."

"Admittedly there will be a very tiny sliver of cases, when you're *tracking a person of interest*, criminal on the run, and you're going to be using all this infrastructure to monitor those and track them. But that's going on already, there's no surprise and there's high public acceptance of that." Instead, the professor warned that

cybersecurity threats such as *hacking and data leaks* could be bigger dangers.







Big Data is a generalized, *imprecise term* that refers to the use of large data sets in data-science and *predictive analytics* [Mayer-Schönberger & Cukier 2013]

Big data can be used to identify more general trends and correlations but it can also be processed in order to directly affect individuals [WP29 2013]

high-volume, high-velocity and high-variety information assets that demand cost-effective, innovative forms of information processing for enhanced insight and decision making [www.gartner.com/it-glossary/big-data]

unprecedented computational power and sophistication make possible <u>unexpected discoveries</u>, innovations, and advancements in our quality of life [Whitehouse 2014] artificial intelligence or AI – the analysis of data to model some aspect of the world. Inferences from these models are then used to predict and anticipate possible future events [UK Government Office for Science 9 November 2016]

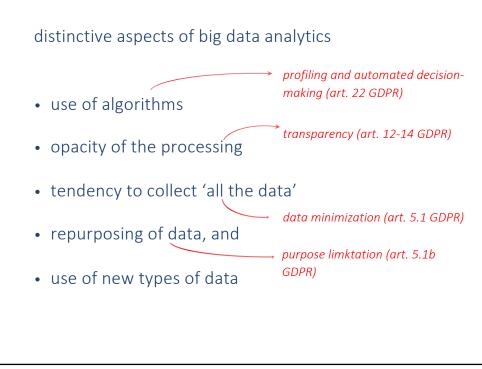
giving computers behaviours which would be thought intelligent in human beings [www.aisb.org.uk/publicengagement/what-is-ai]

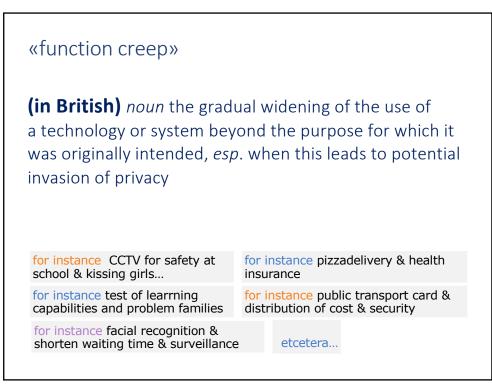
machine learing – the set of techniques and tools that allow computers to 'think' by creating mathematical algorithms based on accumulated data [https://iq.intel.com/artificial-intelligenceand-machine-learning/] venicies upon the highways, wi should not overlook the fact that the driving of a horseless carriage calls for a larger amount of attention, if not skill; upon the part of the driver, than is necessary in regard to horse-drawn conveyances. for he has not the advantage of the intelligence of the horse in shaping his path, and it is consequently incumbent upon him to be even watchful of the course his vehicle is taking "

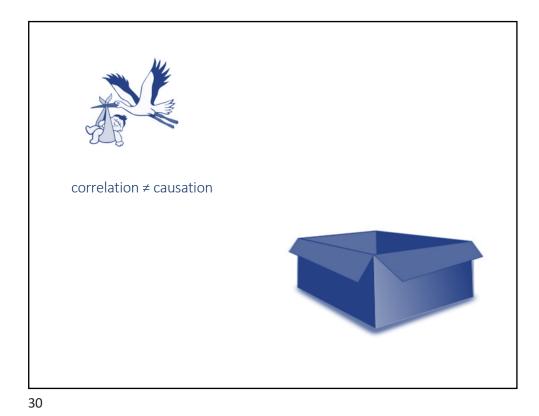












in a big-data age most innovative secondary uses [of data] haven't been imagined when the data is first collected. How can companies provide notice for a purpose that has yet to exist? How can individuals give informed consent to an unknown...?

[Mayer-Schönberger & Cukier 2013]

free, specific, informed and unambiguous 'opt-in' consent would almost always be required, otherwise further use cannot be considered compatible

[WP29 2013]

