

### INTERNET PRIVACY AND EU DATA PROTECTION

Data Protection and Datafication, Big Data and Internet-of-Things, Artificial Intelligence, Machine Learning (etc.)

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personal data & special data

transparancy

consent or other processing ground

data minimisation

purpose specification and limitation

profiling

etc.

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# Rasterfahndung

Typically RAF-terrorists use cash and pay their electricity bill in person at the utility (to keep their apartments associated with a false name)



### credit score

- a numerical expression based on a level analysis of a person's credit files, to represent the creditworthiness of the person.
- primarily based on a credit report information typically sourced from credit bureaus.
- to evaluate the potential risk posed by lending money to consumers and to mitigate losses due to bad debt

Klarna around the world.

Klarna was funded in 2006 in 500s have. Beeden with the aim of realized a sealer for peeper to shop eached with the aim of realized a sealer for peeper to shop eached and transferred the world around full, yet our mission membra as retreat a server, to make poping as simple, safe and allowe all, smooth as possible.



# 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

## 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



### search results



37. Also, the organisation and aggregation of information published on the internet that are effected by search engines with the aim of facilitating their users' access to that information may, when users carry out their search on the basis of an individual's name, result in them obtaining through the list of results a structured overview of the information relating to that individual that can be found on the internet enabling them to establish a more or less detailed profile of the data subject



## profiling and automated decision making

automated processing of personal data consisting of the use of personal data to *evaluate* certain personal aspects relating to a natural person

in particular to *analyse* or *predict* aspects concerning that natural person's

- performance at work
- economic situation
- health
- personal preferences
- · interests
- · reliability
- behaviour
- · location or movements





# rules for profiling

#### a right

- not to be subject to a decision based solely on automated processing, including profiling,
- which produces legal effects concerning him or her
- or similarly significantly affects him or her

#### exceptions

- (a) necessary for entering into, or performance of, a contract between the data subject and a data controller
- (b) authorised by Union or Member State law to which the controller is subject and which also lays down suitable measures to safeguard the data subject's rights and freedoms and legitimate interests
- (c) based on the data subject's explicit consent.

### datafication

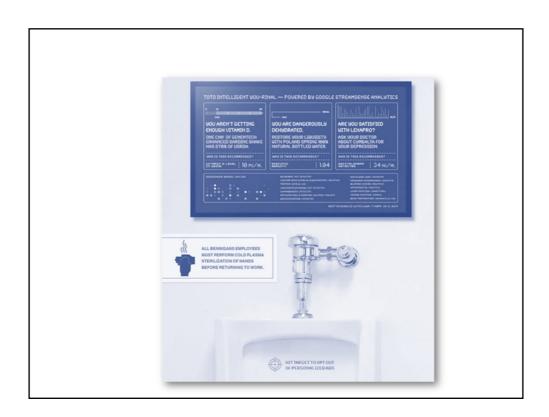
every breath you take every move you make every bond you break every step you take...



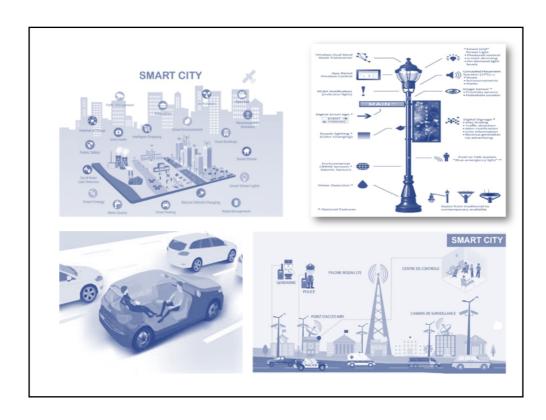
# datafication [ $dey \cdot tuh \cdot fi \cdot key \cdot shuh \cdot n$ ]

a modern technological trend turning many aspects of our life into computerized data and transforming this information into new forms of value [Mayer-Schönberger & Cukier 2013]



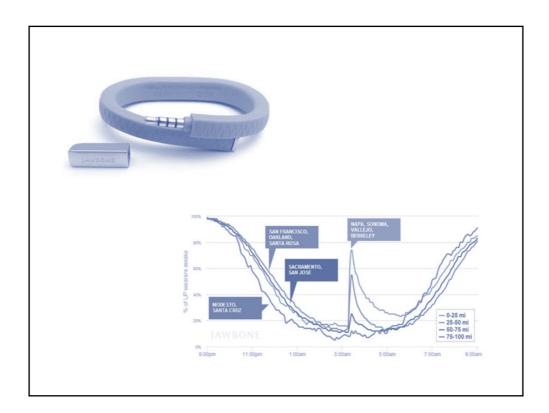












Big Data is a generalized, imprecise term that refers to the use of large data sets in data-science and predictive analytics [Mayer-Schönberger & Cukier 2013]

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 unexpected discoveries, innovations, and advancements in our quality of life [Whitehouse 2014]

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distinctive aspects of big data analytics
 use of algorithms
 opacity of the processing
 tendency to collect 'all the data'
 repurposing of data, and
 use of new types of data



# «function creep»

the gradual widening of the use of a technology or system beyond the purpose for which it was originally intended, esp. when this leads to potential invasion of privacy

CCTV for safety at school & kissing girls...

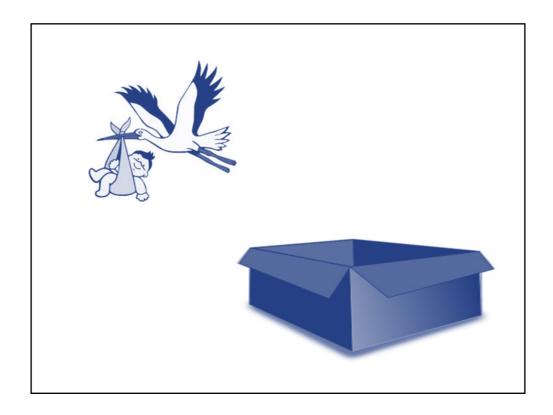
test of learning capabilities and problem families

facial recognition & shorten waiting time & surveillance

pizzadelivery & health insurance

public transport card & distribution of
cost & security

etcetera...





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]

### Al-principles

human centric – deploy AI only if there is a clear benefit for people and society | no unfair bias

human control – our processes will remain within human control | no black box

human accountability – we will remain accountable | no blaming the algorithm

human decision making – transparency about decisions and underlying reasoning | review and appeal





### Al Principles

- human agency and oversight
- technical robustness and safety
- privacy and data governance
- transparency
- diversity, non-discrimination and fairness
- societal and environmental well-being
- accountability







