

Rathenau Instituut

Extending reality On the social impact of AR in the Netherlands

Serf Doesborgh Dhoya Snijders Rinie van Est Roos Groothuizen Lilian van Hove <image>

VARR - 8 November 2019 - Amsterdam

Rathenau Institute

- Founded in 1986
- Royal Dutch Academy of Sciences, financing ministry of Education
- Mission:
 - To support the formation of political and public opinion on socially relevant aspects of science and technology.
 - Societal perspective
- Around 60 staff members



1. What is the current state of AR technology?

2. What ethical and societal issues are associated with use of AR?

3. How can politics and government in the Netherlands steer the development of AR in a socially responsible way?



Pokémon Go



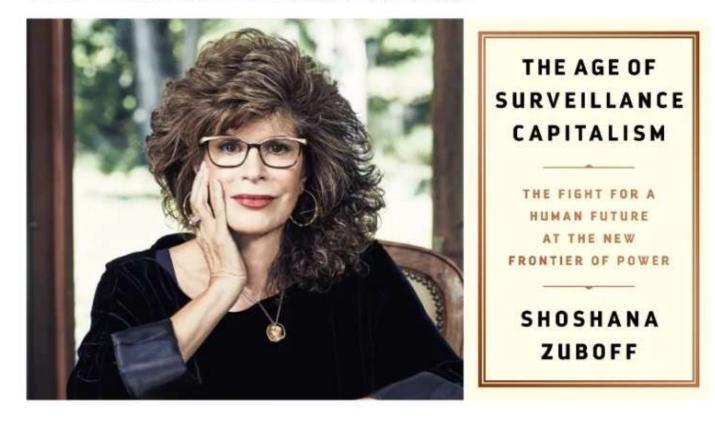


Businesses paid to have Pokemon Go players directed to their locations, says author



We're living in an age of 'surveillance capitalism,' says Shoshana Zuboff

CBC Radio - Posted: Feb 28, 2019 2:53 PM ET | Last Updated: February 28



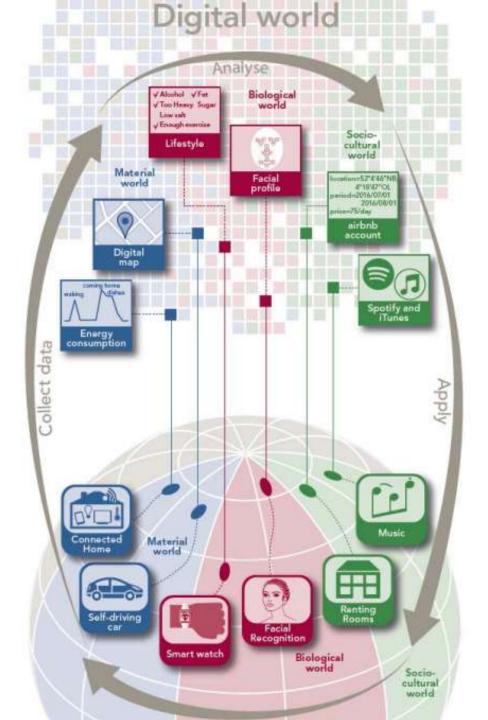
Intimate technology moment

CHNOLOGY

Technology nearby and in us Technology between us

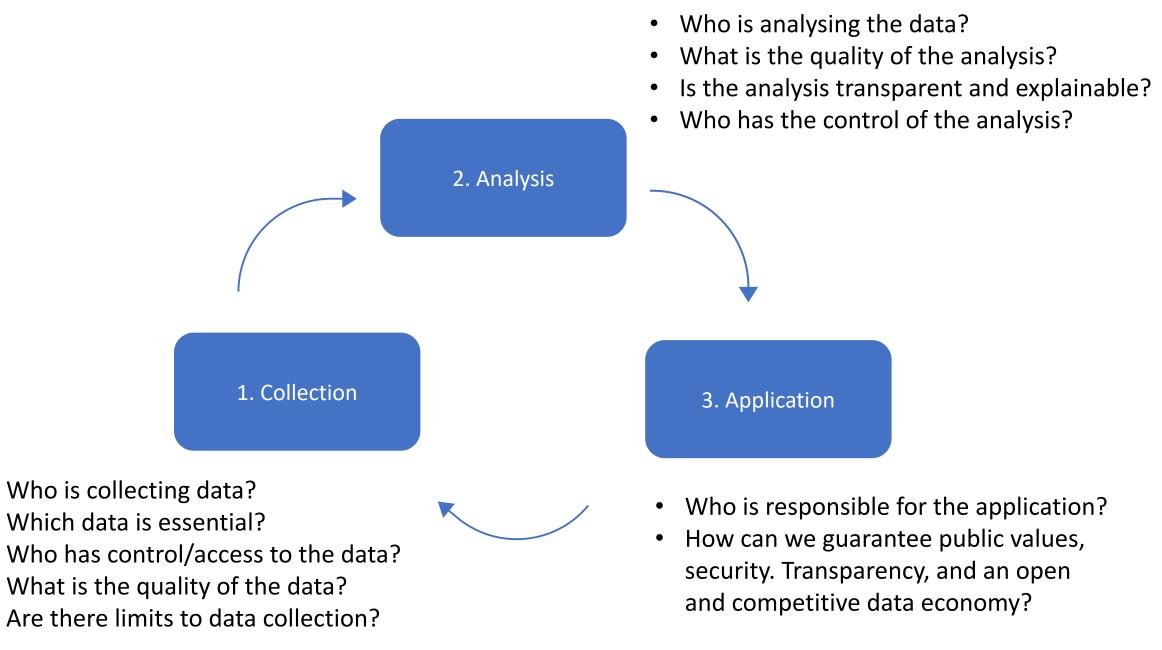
Technology Just like us

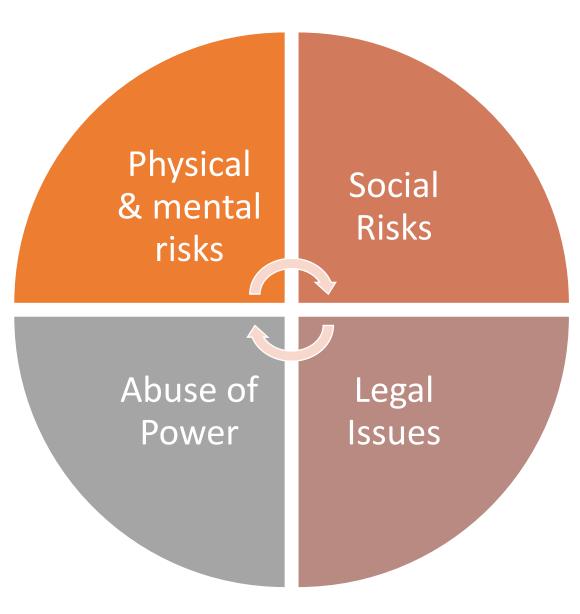
Technology about us

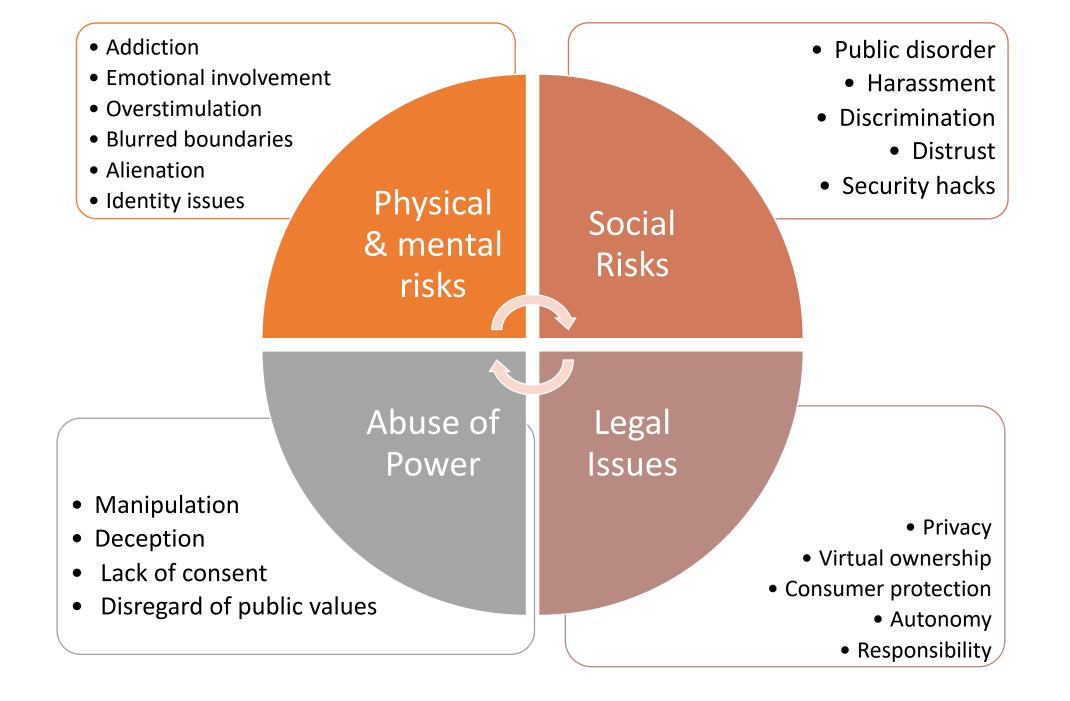


Cybernetic Feedback Loop

- 1. COLLECTING DATA
- 2. ANALYSE DATA
- 3. APPLY DATA

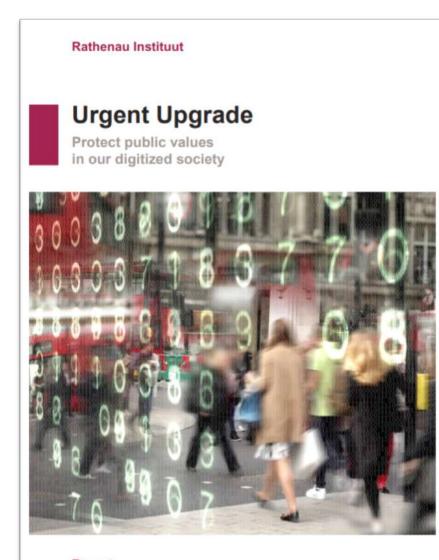






Preliminary observations

- Increasing use of AR-technology in society
- Consumer protection measures by industry, but limited
- Literature flags many societal issues/risks
- Lack of public debate about these
- Lack of political debate



Theme Issues Data protection, privacy, spatial privacy, mental Privacy privacy, surveillance, function creep Autonomy Freedom of choice, freedom of expression, manipulation, paternalism Safety and security Information security, identity fraud, physical safety **Control technology** Control and transparency of algorithms, responsibility, accountability, unpredictability Human dignity Dehumanization, instrumentalization, deskilling, descocialization, unemployment Equity and equality Discrimination, exclusion, equal treatment, unfair bias, stigmatization **Balance of power** Unfair competition, exploitation, shifting relations between consumers and businesses, and between government and businesses.

Report

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Serf Doesborgh Dhoya Snijders Rinie van Est

Roos Groothuizen (Artist in Residence)

Lilian van Hove





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Rathenau Instituut

Thank you for your attention.

Let's open up the debate!

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Publications on smart society www.rathenau.nl





