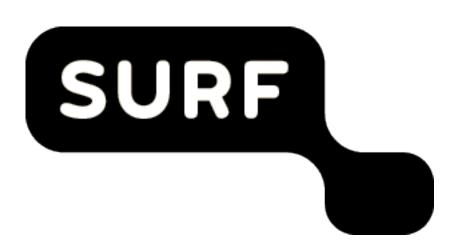
Improving privacy choice through design: How designing for reflection could support privacy self-management

Arnout Terpstra

(External) PhD student, Tilburg University (TILT) Product Manager Trust & Identity, SURFnet

Dr. A. P. Schouten (DCC)
Dr. K. A. de Rooij (DCC)
Prof. Dr. R. E. Leenes (TILT)





Some trends...



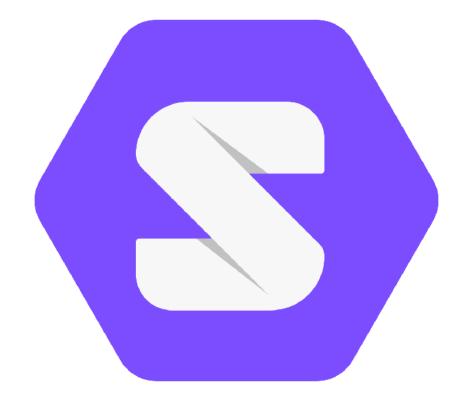
Preserving the User Centric Internet

22 April 2009











Privacy self-management: the reality (1/3)



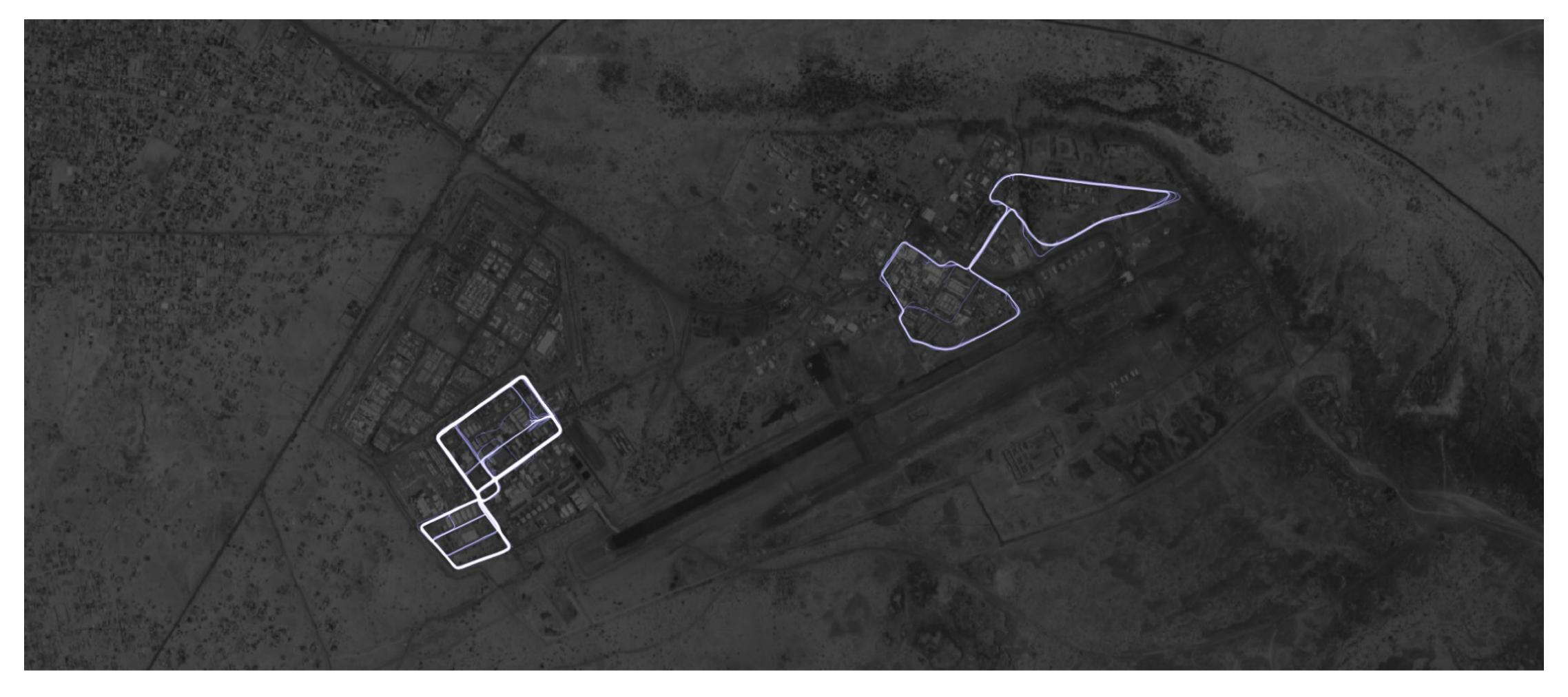


Dima Yarovinsky, I Agree https://www.dimayarovinsky.com/#/i-agree/

Privacy self-management: the reality (2/3)



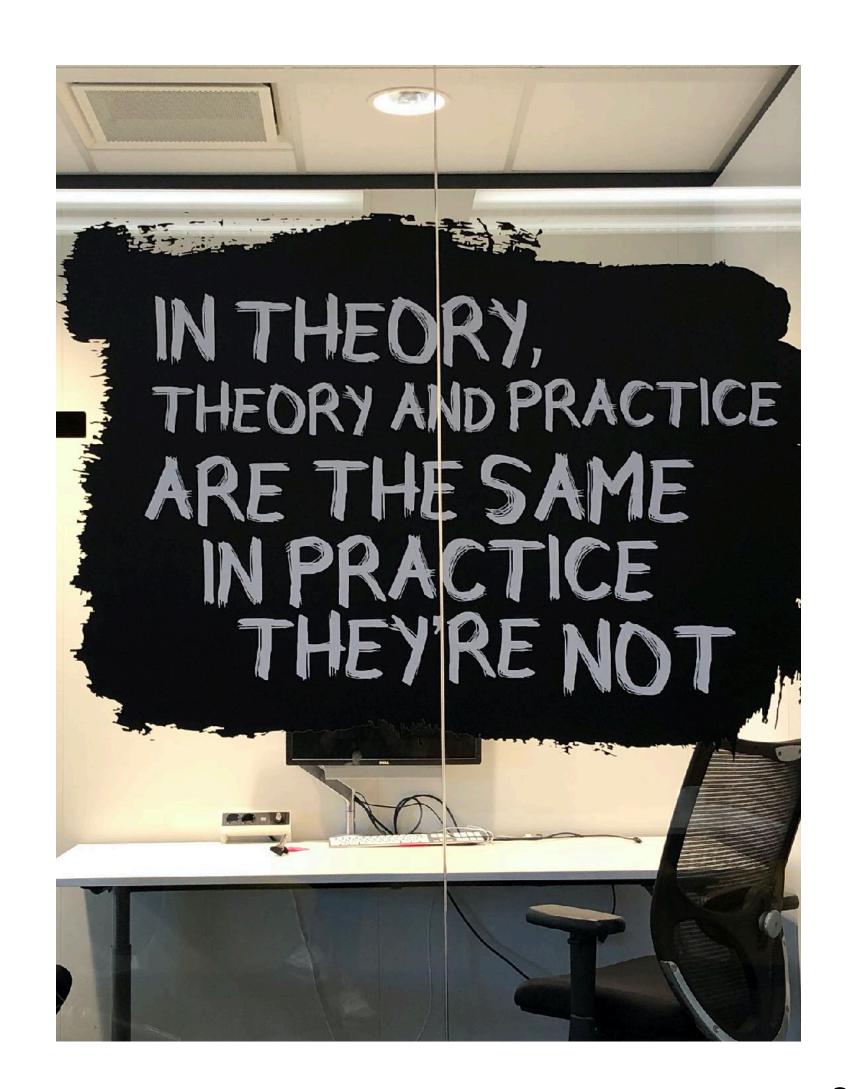
Privacy self-management: the reality (3/3)



Project Polar, The Correspondent https://decorrespondent.nl/collectie/project-polar-english

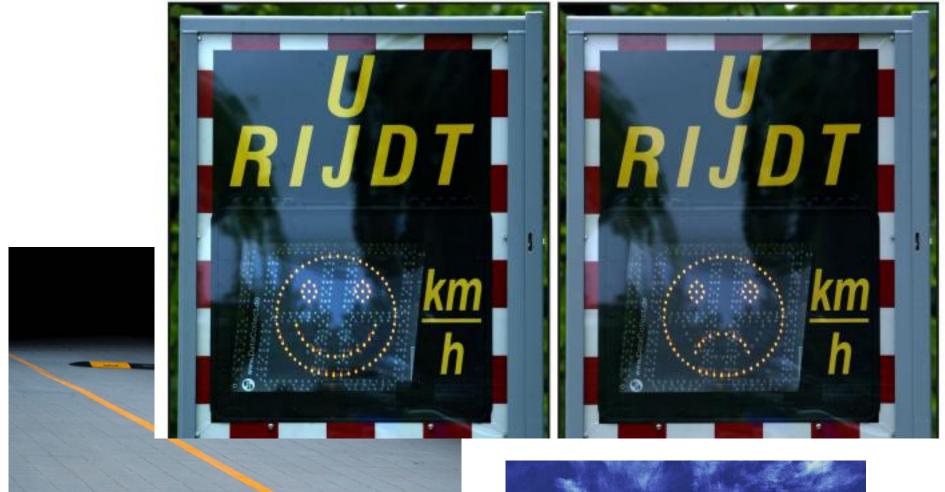
Issues with notice & consent

- Privacy policies do not accomplish their goal of informing the individual; too lengthy and too complicated
 - Also, privacy and personal data are complex concepts
- Human decision-making is often irrational and biased; dual process theory
 - Notice & consent 'knowledge gap' is not actually reduced
- There is no meaningful choice; take it or leave it
 - No interoperability between products/services



There are alternatives...

https://www.nporadio1.nl/consument/19054-nudging-zo-wordtje-gedrag-dagelijks-beinvloed



https://unsplash.com/photos/ hogzrykg-KA



https://unsplash.com/photos/U4rGvsvop-s

- Broad palette available to regulators:
 - More (command & control) law, e.g speed limit
 - Architecture/code, e.g. speed bumps
 - Nudging, e.g. sad smiley when speeding

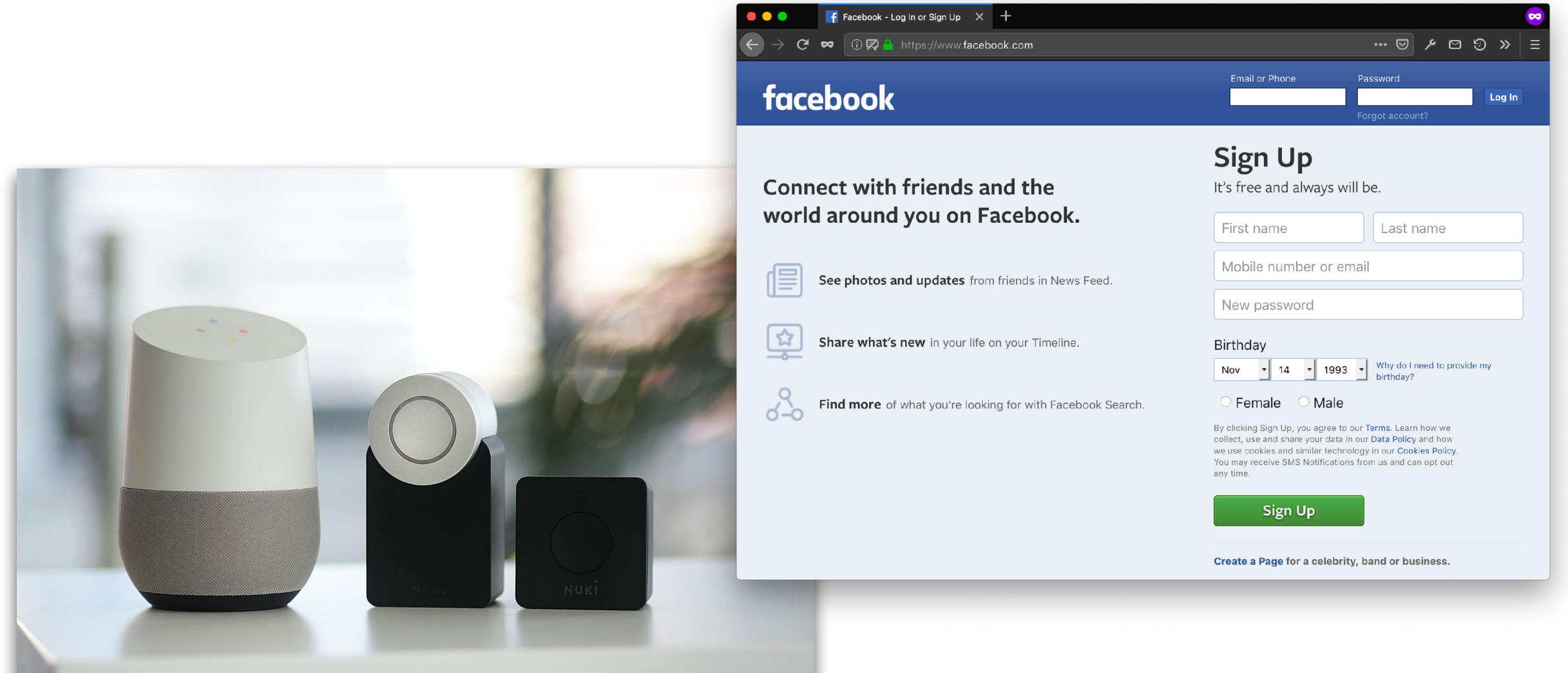
... but, more issues.

- Law: negative effects on innovation/ competition
 - Also, expensive, difficult to enforce and politically unattractive
- Architecture/nudging: focus on outcomes
 - Changing situations, not people
- No engagement: debate on privacy regulation is confined to domain of regulators
 - Individuals feel resigned
 - Individuals can not become morally responsible agents



https://unsplash.com/photos/ TW3dFH_4nEk

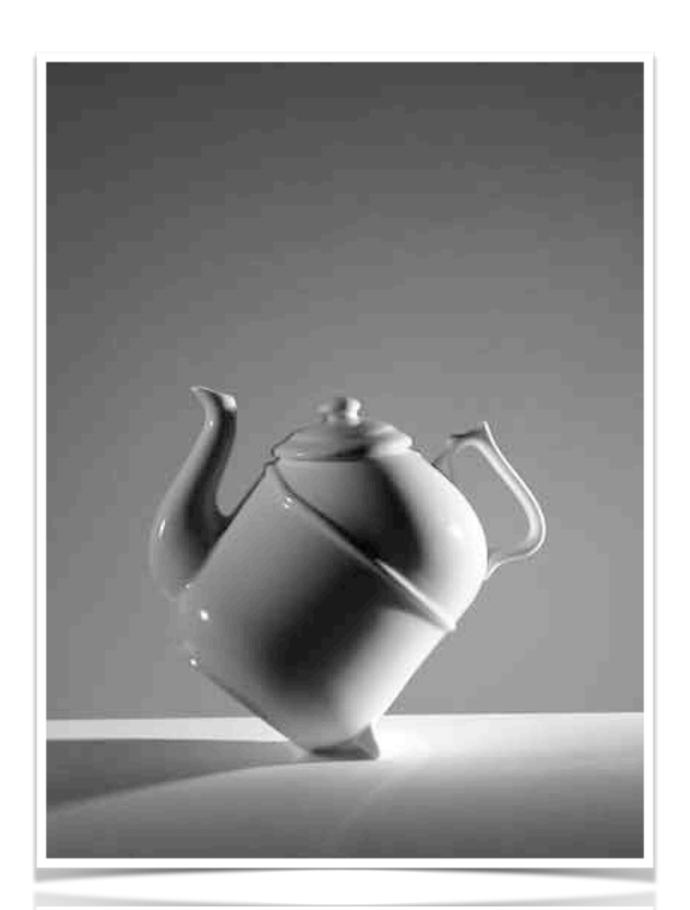
On design (1/2)



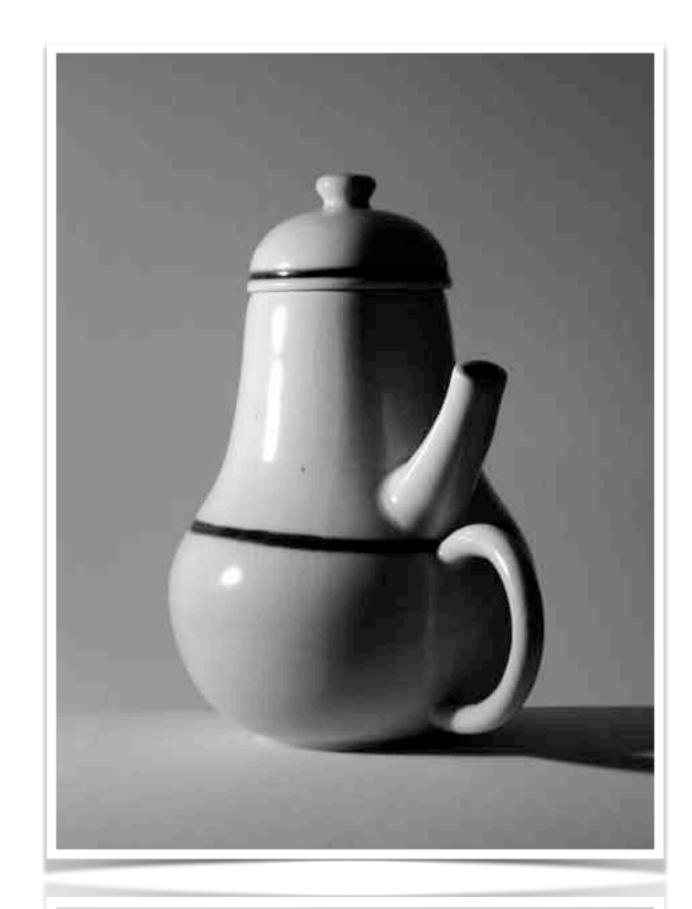
On design (2/2)



Visceral



Behavioural



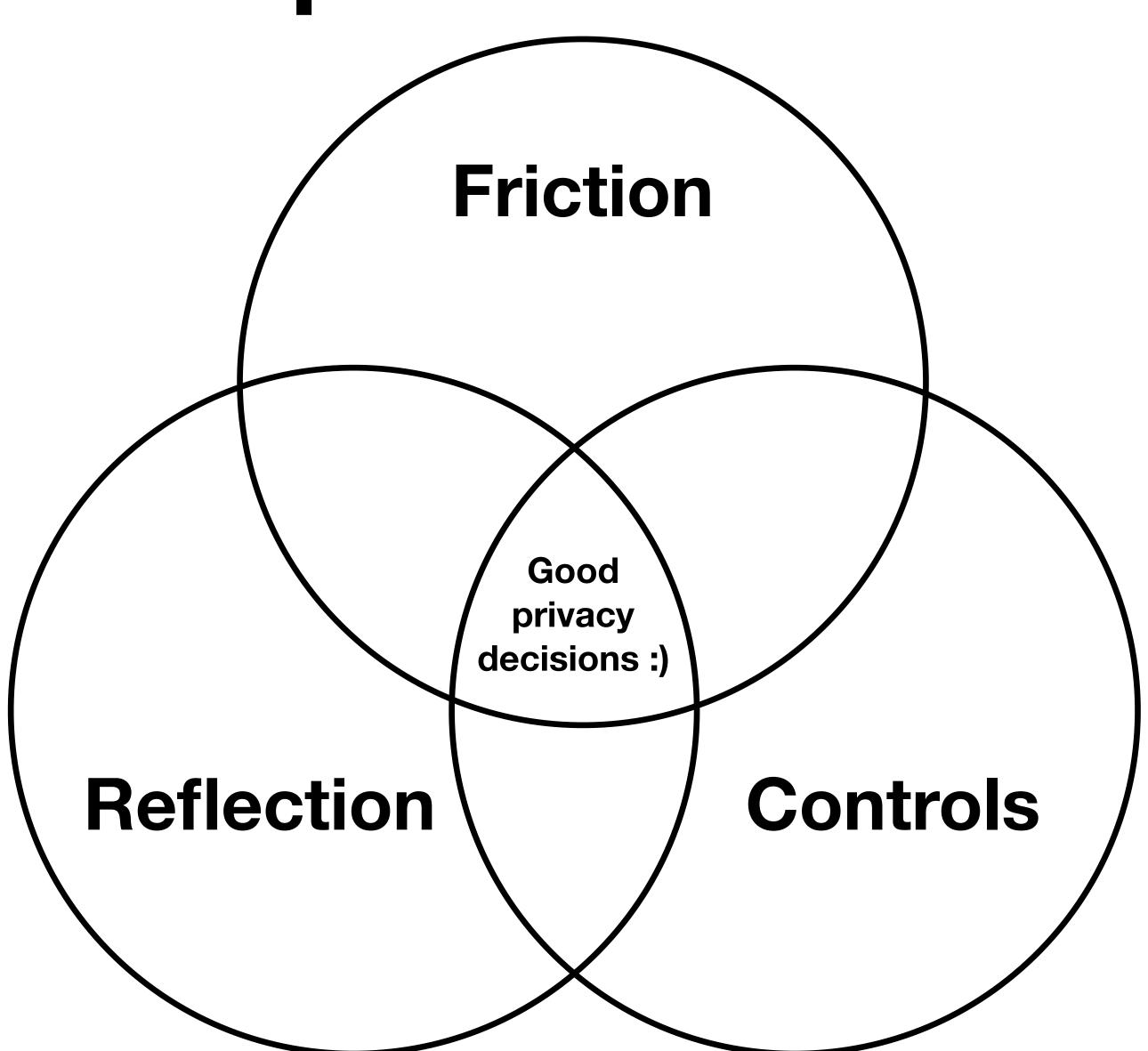
Reflective

Reflective & adversarial design

- Support continuous reflection on underlying values
- Provoke reflection: escape habitual behaviour and thinking
- Adversarial design: design to evoke political debate



Proposed model



Friction?

Society is not frictionless

• Oxford dict.: "Conflict or animosity caused by a clash of wills, temperaments, or opinions."

Frictionless is the mantra in tech

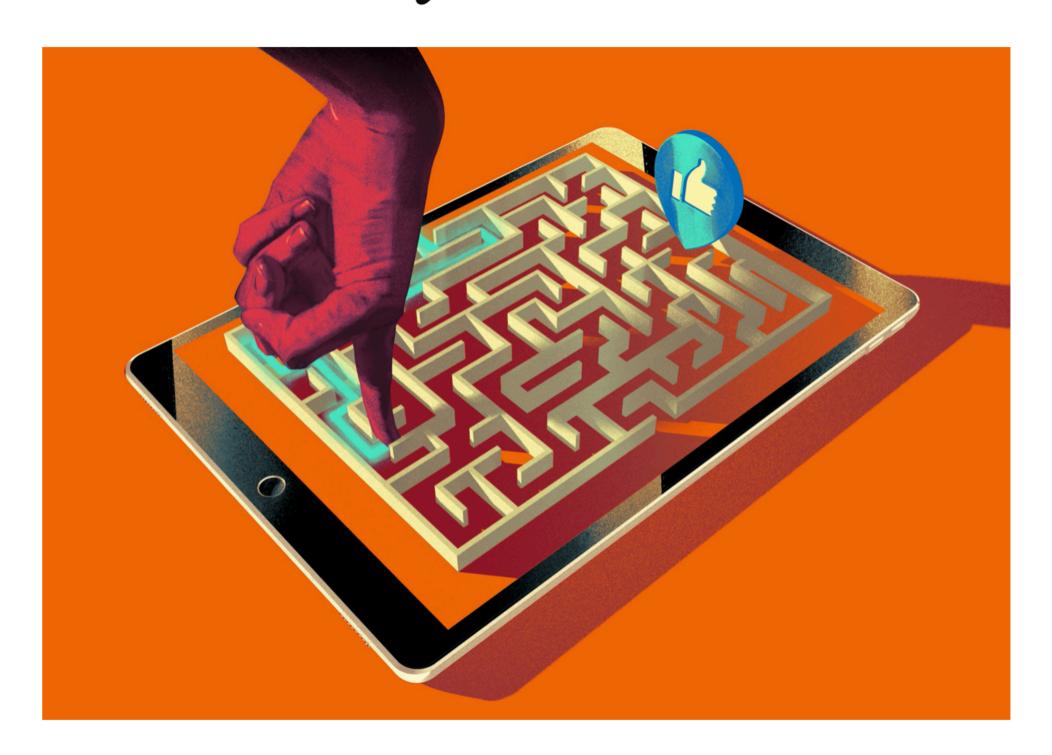
- "[...] apps connected to Facebook would regularly ask users if they wanted to publish their latest activity to their feed on the social network. Those pop-up messages [...] were annoying, Mr. Zuckerberg said, so the company had created a new category of apps that could post directly to users' feeds, without asking for permission every time.

"From here on out, it's a frictionless experience," Mr. Zuckerberg said."

The New York Times

THE SHIFT

Is Tech Too Easy to Use?



Good friction

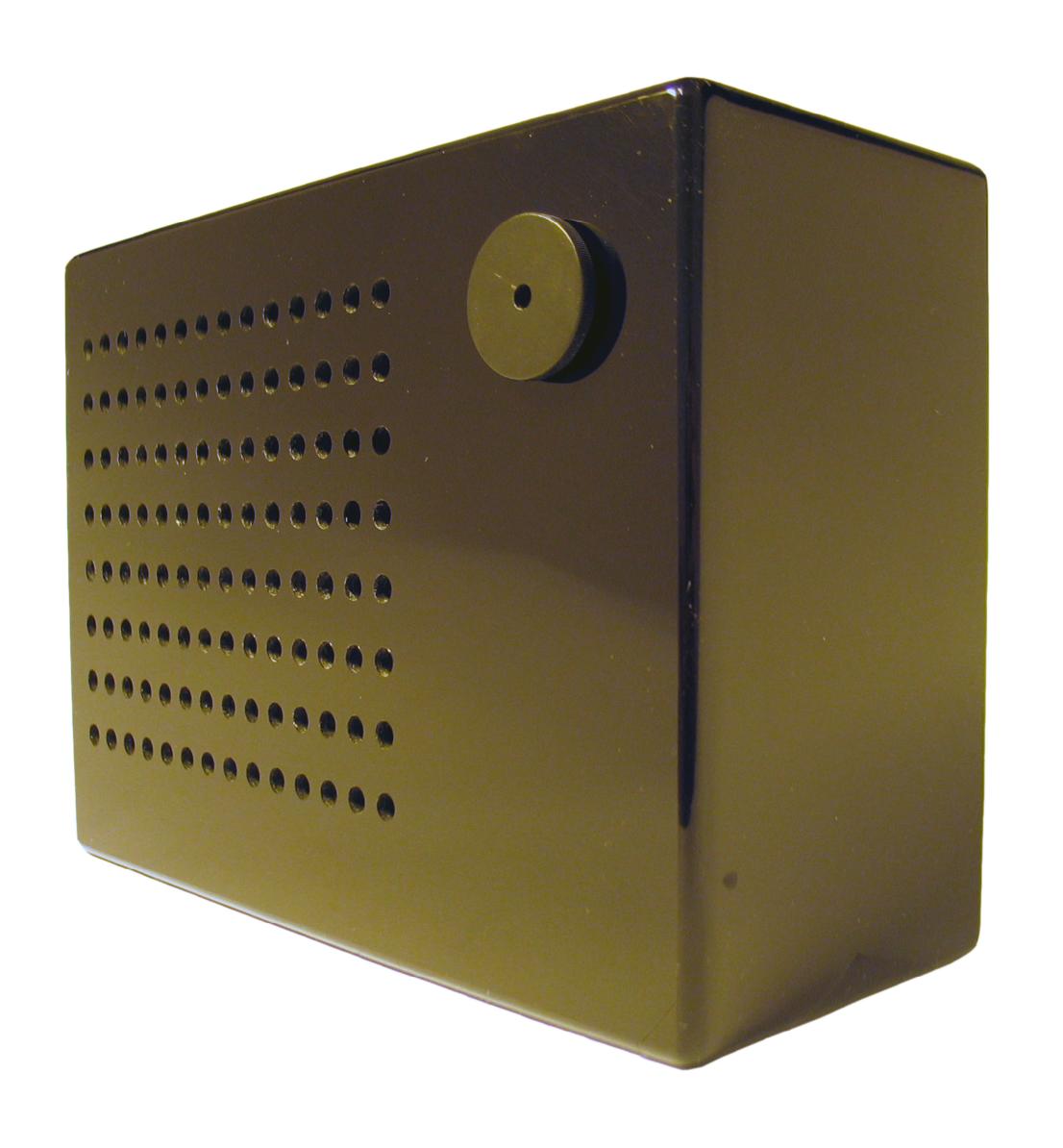
- Mindful interactions: make unconscious behaviour conscious
- Error prevention
 - "Do you really want to empty the trash?"
 - Checks to improve data quality in online forms
- Qualitatively better decisions
 - Cooling-off period after online purchase
 - Font (see image) which allegedly makes people remember texts better
- Develop skills
 - Games
 - Learning from mistakes (see image)
- User satisfaction / more engagement
 - Goldilocks tasks: not too easy, not too difficult
 - IKEA effect



Failing 15% of the time is the best way to learn, say scientists

Researchers say they have discovered the 'Goldilocks' zone' where people learn the fastest





Erratic Appliances
http://dru.tii.se/static/erratic.htm



Reflective messages

Computers in Human Behavior 66 (2017) 345–352



Contents lists available at ScienceDirect

Computers in Human Behavior





Full length article

"Thinking before posting?" Reducing cyber harassment on social networking sites through a reflective message



Kathleen Van Royen ^{a, *}, Karolien Poels ^a, Heidi Vandebosch ^a, Philippe Adam ^b

^a Department of Communication Studies, University of Antwerp, Antwerp, Belgium

^b Faculty of Arts and Social Sciences, University of New South Wales, Sydney, Australia

Questions?!

Ps. re-read my arguments at: https://edu.nl/actj9



Improving privacy choice through design: How designing for reflection could support privacy self-management by Arnout Terpstra, Alexander P. Schouten, Alwin de Rooij, and Ronald E. Leenes

privacy self-management by Arnout Terpstra, Alexander P. Schouten, Alwin de Rooij, and Ronald E. Leenes