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Engineer your career • Improve our society

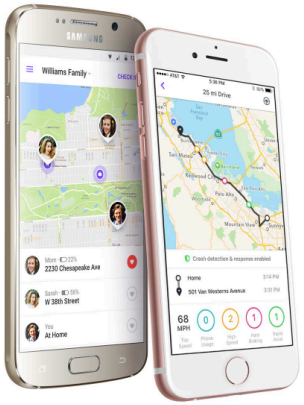
Responsible Data Sharing: A vision of human-technology partnership

dr. M. Birna van Riemsdijk

coreSAEP

DELFT DATA SCIENCE

Personal & intimate technologies



Location Sharing

Quantified Self

Robot as coach

High-tech fashion

Digital pill

twitter

Social Media

Also raise concerns…

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Responsibility and Privacy — Ethical Aspects of Using GPS to Track Children

Jessica Nihlén Fahlquist
Philosophy Section, Delft University of Technology, Delft, The Netherlands

Germany bans children's 'smart' watches over surveillance concerns

First Digital Pill Approved to Worries About Biomedical 'Big Brother'

By PAM BELLUCK NOV. 13, 2017

Facebook CEO Mark Zuckerberg: Elon Musk's doomsday AI predictions are 'pretty irresponsible'

Catherine Clifford | 1:05 PM ET Mon, 24 July 2017

Elon Musk says we need to regulate AI before it becomes a danger to humanity

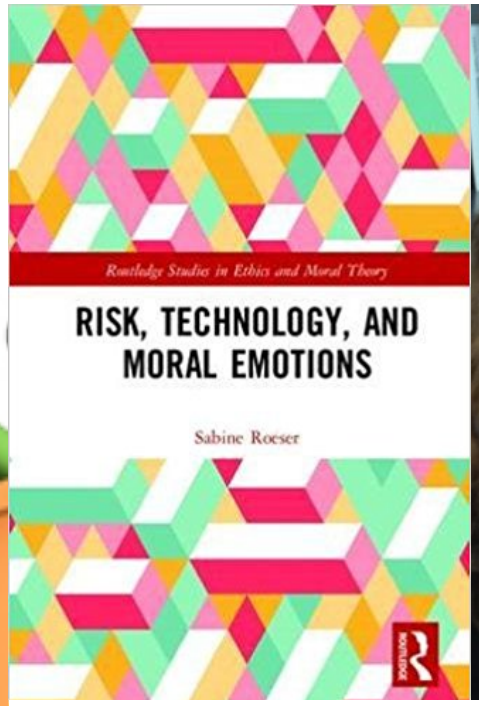
by James Vincent | @jjvincent | Jul 17, 2017, 4:43am EDT

Yes!

Health, efficiency, connection,….

No!

how will tech affects us as humans?



Prof. Sabine Roeser

Yes!

Health, efficiency, connection,….

No!

how will tech affects us as humans?

The question is not whether we say "yes" or "no" to technology, but **how** we shape and use it.

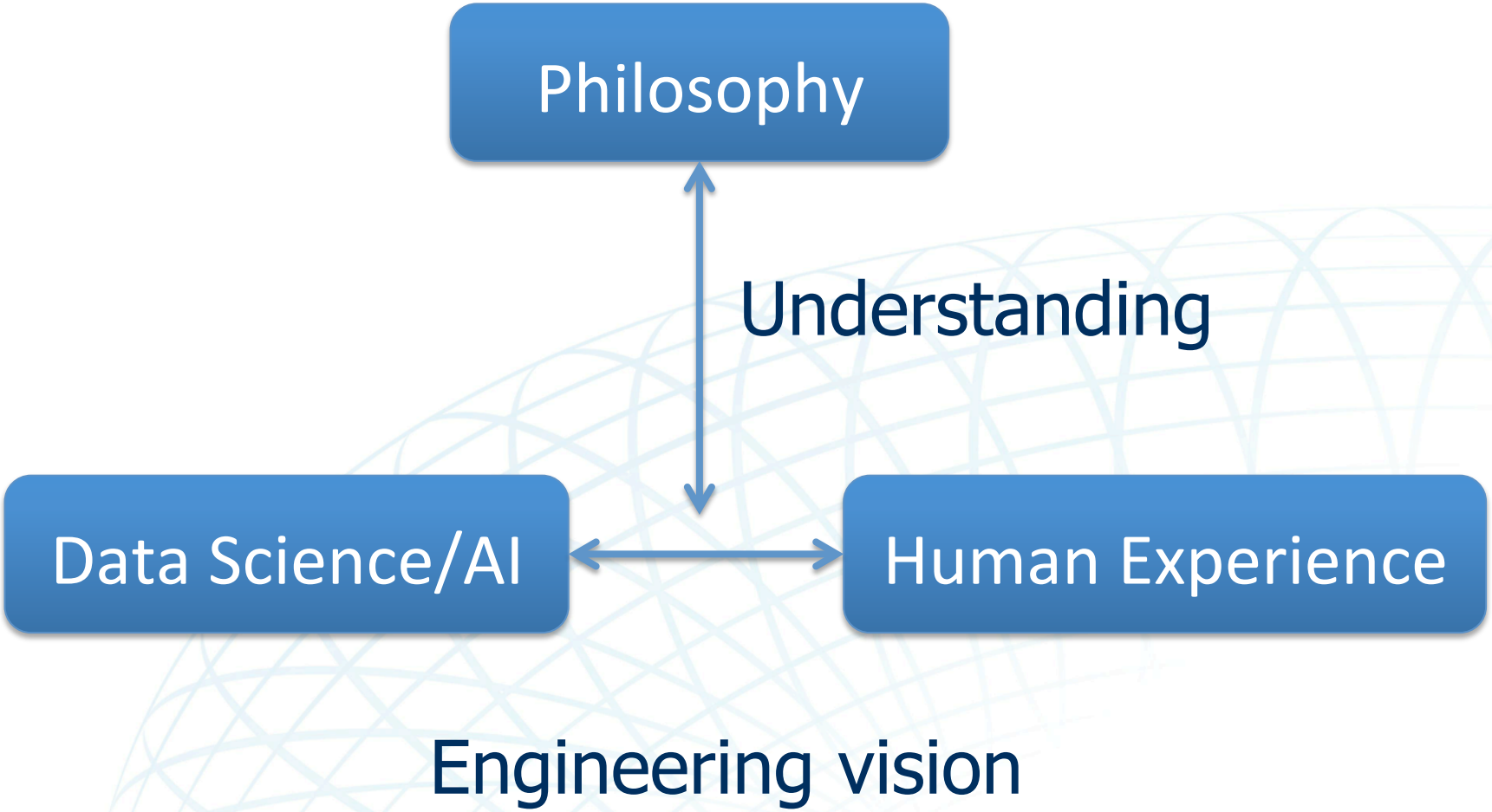
Yes!

Health, efficiency, connection,….

No!

how will tech affects us as humans?

A way forward



Understand concerns about personal & intimate technologies as **vulnerability arising from their intimate nature**

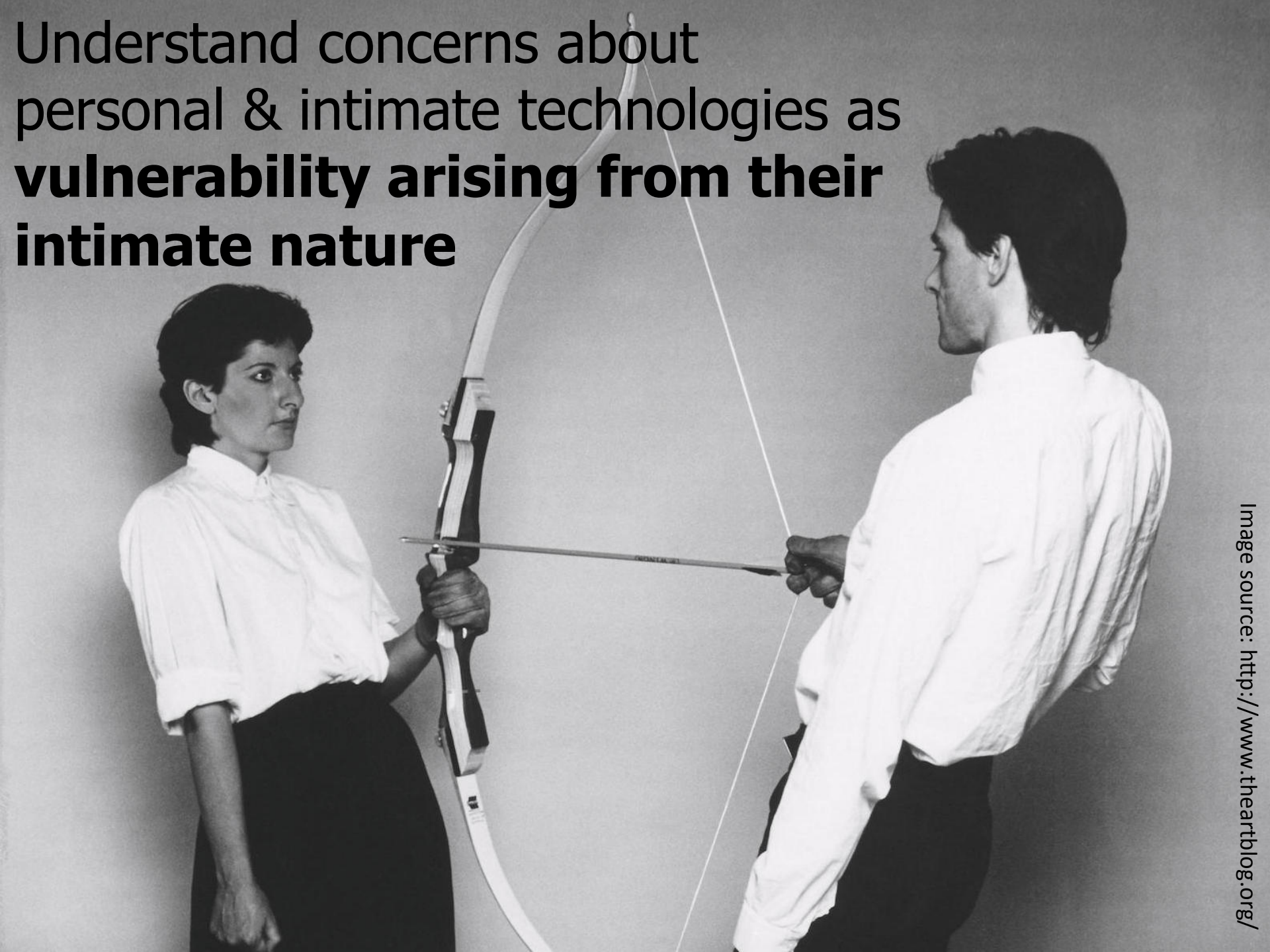


Image source: http://www.theartblog.org/

Intimate computing
is computing with vulnerability
Image source: https://www.rd.com/

Focus: Data Sharing

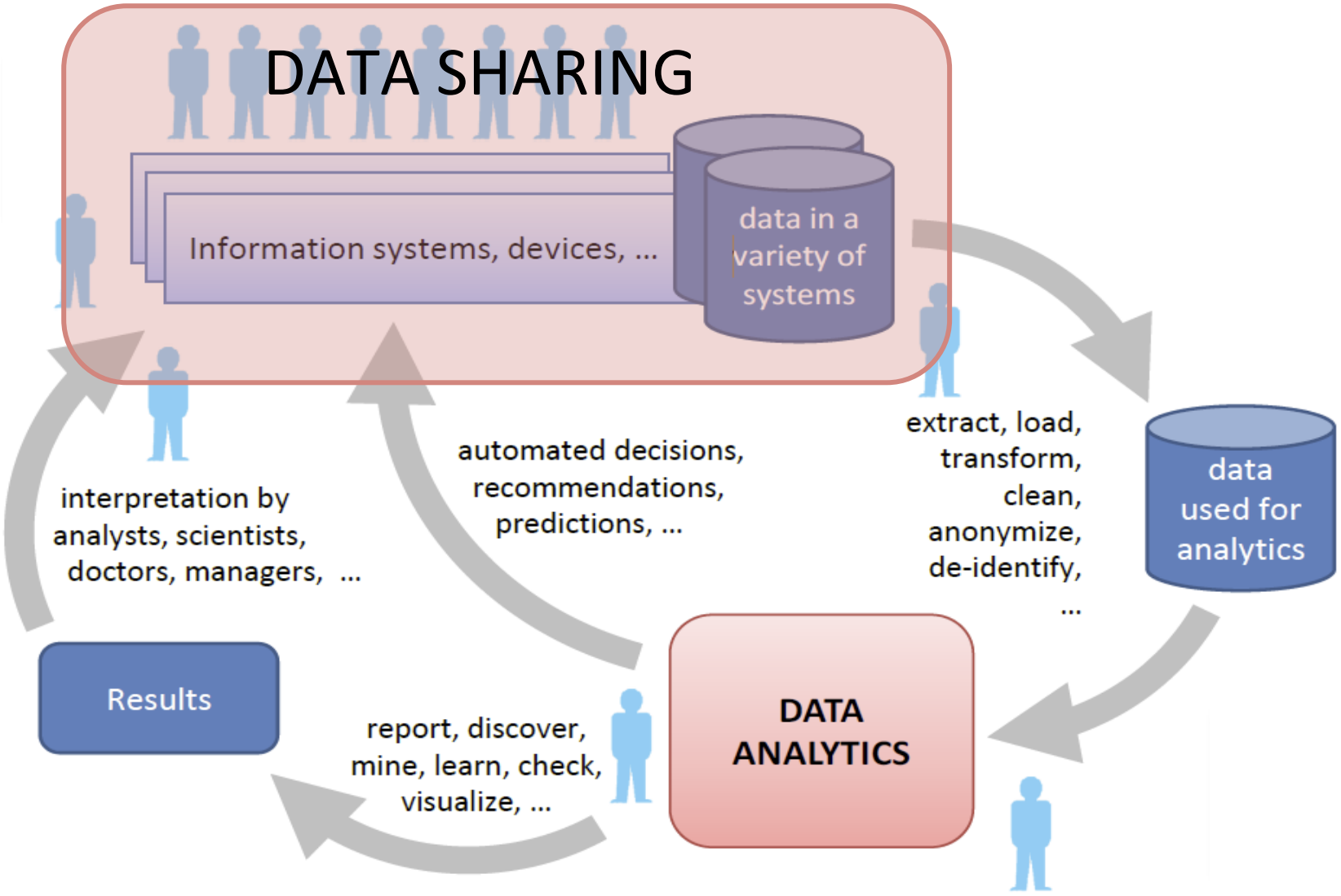


Image source: http://www.responsibledatascience.org

Responsible Data Sharing

- Sharing is part of developing meaningful relationships, yet at the same time it makes us vulnerable
  - The more data the better? The less data the better?
- Current personal technology doesn't account for this data sharing vulnerability
  - it is inflexible, requiring to share all or no data
  - risk: data is shared that violates our norms and values, impacting our social relations in an undesirable way

- Engineering and research challenge
  - How can we make the data sharing part of personal and intimate technologies more flexible in accommodating our norms and values?
  - Towards human-technology partnership

"Vulnerability is at the core,
the center, of meaningful
human experiences."

- BRENE BROWN