DATA ETHICS

Jurie Florijn

AGENDA

1. Introduction / ethical perspectives

2. AI and ethics, what's the problem?

3. Data ethical frameworks

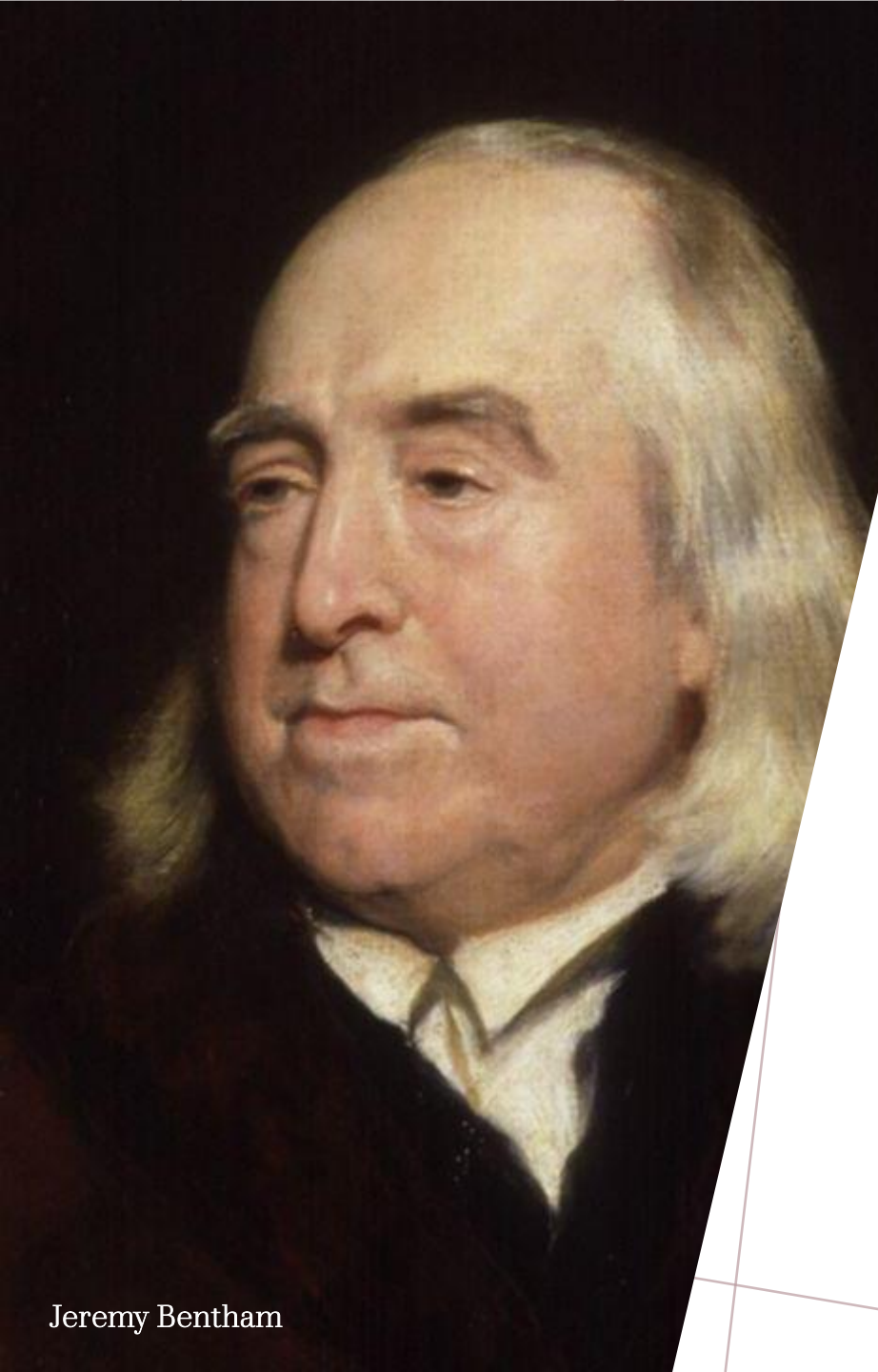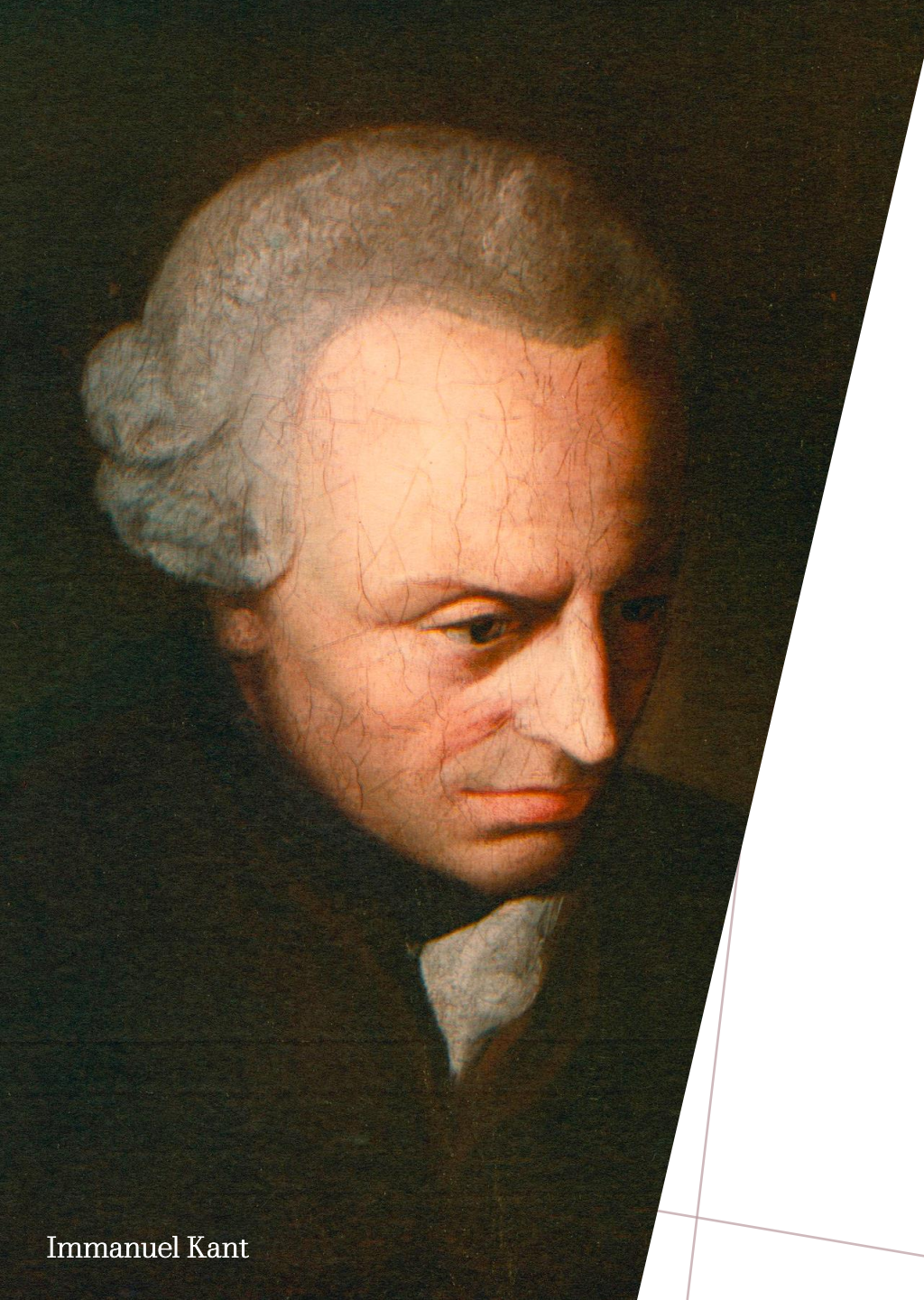4. Practical ethics for AI

ETHICAL PERSPECTIVES

UTILITARIANISM

"The greatest happiness for the greatest number."
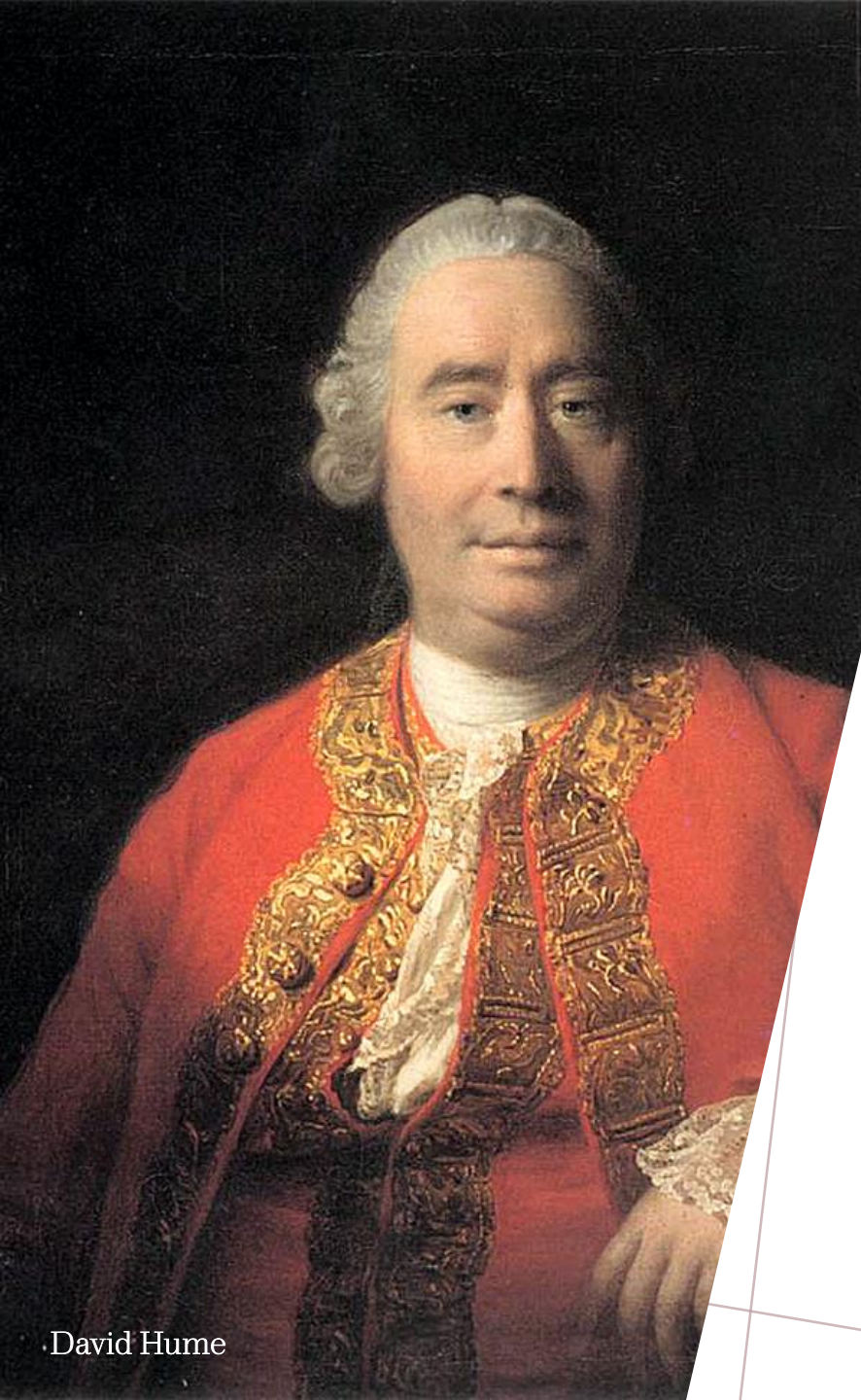
Jeremy Bentham

DEONTOLOGY

"There are overarching principles that should guide our actions."

Immanuel Kant

MORAL RELATIVISM

"The rightness of an action depends on the society you live in."

WHAT'S THE PROBLEM?

PRACTICE

- Basket >   Camera's, sensors, deep learning tools

- Identification, Entry >   Amazon One

- BI>   Just Walk Out Analytics

Home / Companies / News / Amazon's 'just walk out' checkout tech was powered by 1,000 Indian workers

Amazon's 'just walk out' checkout tech was powered by 1,000 Indian workers

As many as 1,000 workers in India were required to review what the customers picked Amazon's Just Walk Out-enabled stores

Photo: Bloomberg

Rimjhim Singh | New Delhi

2 min read Last Updated : Apr 04 2024 | 1:45 PM IST

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Amazon's Just Walk Out technology relies on hundreds of workers in India watching you shop

Alex Bitter   Apr 3, 2024, 7:10 PM CEST

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JUST WALK OUT SHOPPING

Amazon is pulling its Just Walk Out cashierless technology from its Amazon Fresh grocery stores.   Reuters/ HENRY NICHOLLS

AMAZON / TECH / ARTIFICIAL INTELLIGENCE

Amazon insists Just Walk Out isn't secretly run by workers watching you shop

Image: Amazon

Almost all of Amazon's 'Just Walk Out' developers got laid off after checkout-less shopping was nixed

Amazon's checkout-less shopping tech uses cameras and sensors to track which items customers are buying

By Maxwell Zeff / Gizmodo   Published April 5, 2024
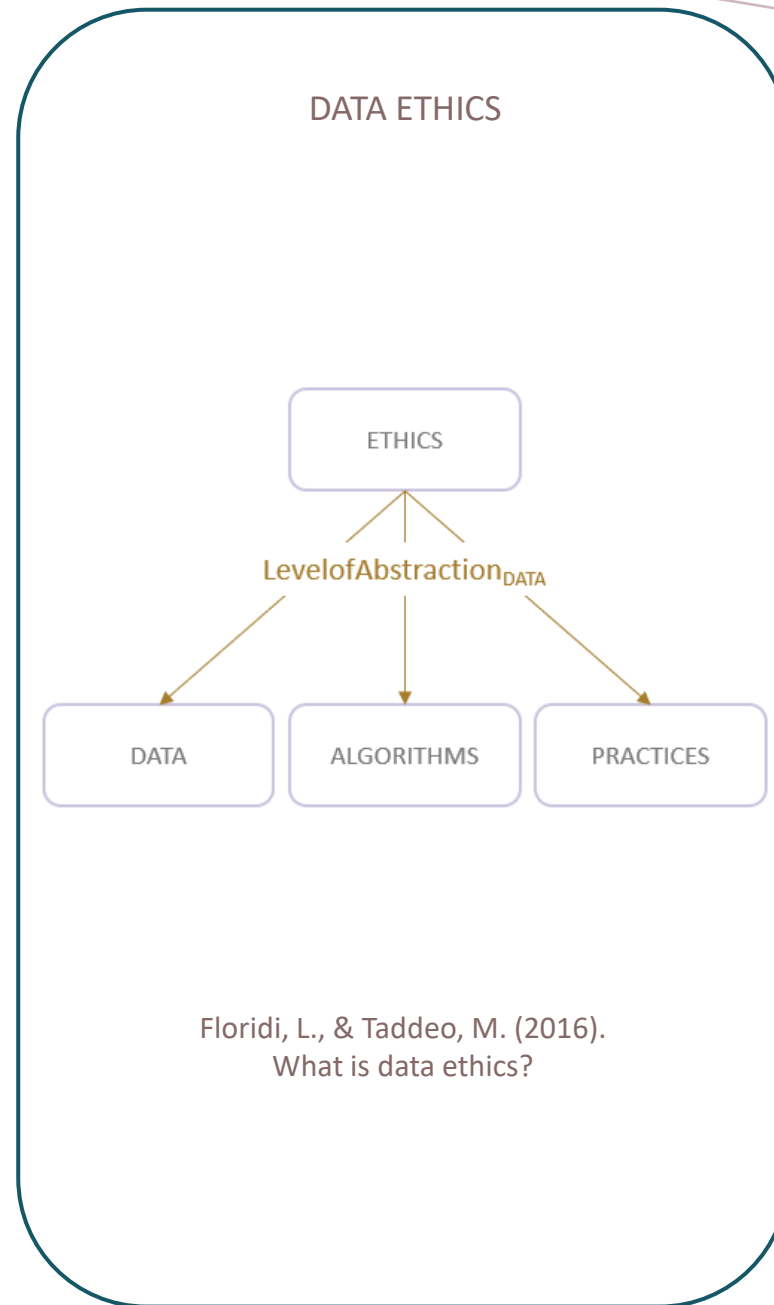
Photo: Leon Neal (Getty Images)

ETHICAL AI FRAMEWORKS

DATA ETHICS

ETHICS

LevelofAbstraction$_{DATA}$

DATA   ALGORITHMS   PRACTICES

Floridi, L., & Taddeo, M. (2016).
What is data ethics?

Ethical Frameworks

AI Ethics Guidelines Global Inventory

EXPLORE THE INVENTORY / ABOUT

APRIL 2020

About

ARCHIVED – this database is not maintained any longer!*

In 2019, AlgorithmWatch launched the *AI Ethics Guidelines Global Inventory* to compile frameworks and guidelines that seek to set out principles of how systems for automated decision-making (ADM) can be developed and

guidelines. As our evaluation shows, there are still only a few guidelines that indicate an oversight or enforcement mechanism. In addition, the overwhelming majority

How we categorize AI ethics guidelines

The guidelines have been classified according to whether the organization that drafted them has the means and processes in place to ensure compliance. The categories are therefore not suitable for determining the quality or accuracy of the ethical positions in the documents collected.

Another important factor is that we do not include adopted legislation in the inventory. Laws are by definition binding and would make these categories redundant. Furthermore, a comparison between the guidelines of a professional association or a company and the results of a legislative process is not useful for this inventory. In our opinion, the various documents that have accompanied and influenced these legislative processes are more relevant.

PRINCIPLES

- 173 principles per April 2020
https://inventory.algorithmwatch.org/

Data / Algorithms / Practices

Autonomy

Nonmaleficence

Beneficence

Justice

Explicability

AUTONOMY

- self-rule that is free from both controlling interference by others and from limitations

- Dignity, Informed consent

NON-MALEFICENCE

"First, do no harm. After that, go nuts."

- The principle of avoiding harm
- Safety, Discrimination

BENEFICENCE

- The principle of doing good for others
- Accessibility, Sustainability

JUSTICE

- Fair, equitable, and appropriate treatment in light of what is due or owed to persons
- Privacy, Fairness

EXPLICABILITY

- The principle that caters for all of the before-mentioned

- Understand and hold to account the decision-making processes of AI

PRACTICAL AI ETHICS

D ata
E thics
D ecision
A id

DEDA

DATA-RELATED CONSIDERATIONS

GENERAL CONSIDERATIONS

7 RESPONSIBILITY

8 COMMUNICATION

9 TRANSPARENCY

10 PRIVACY

11 BIAS

12 FUTURE SCENARIOS

6 OPEN ACCESS AND THE RE-USE OF DATA

5 ACCESS

4 VISUALIZATION

3 ANONYMIZATION

2 SOURCE

1 ALGORITHMS

CONCLUSION

1. Are organizational values and personal values adequately safeguarded?
2. What are the main ethical bottlenecks?
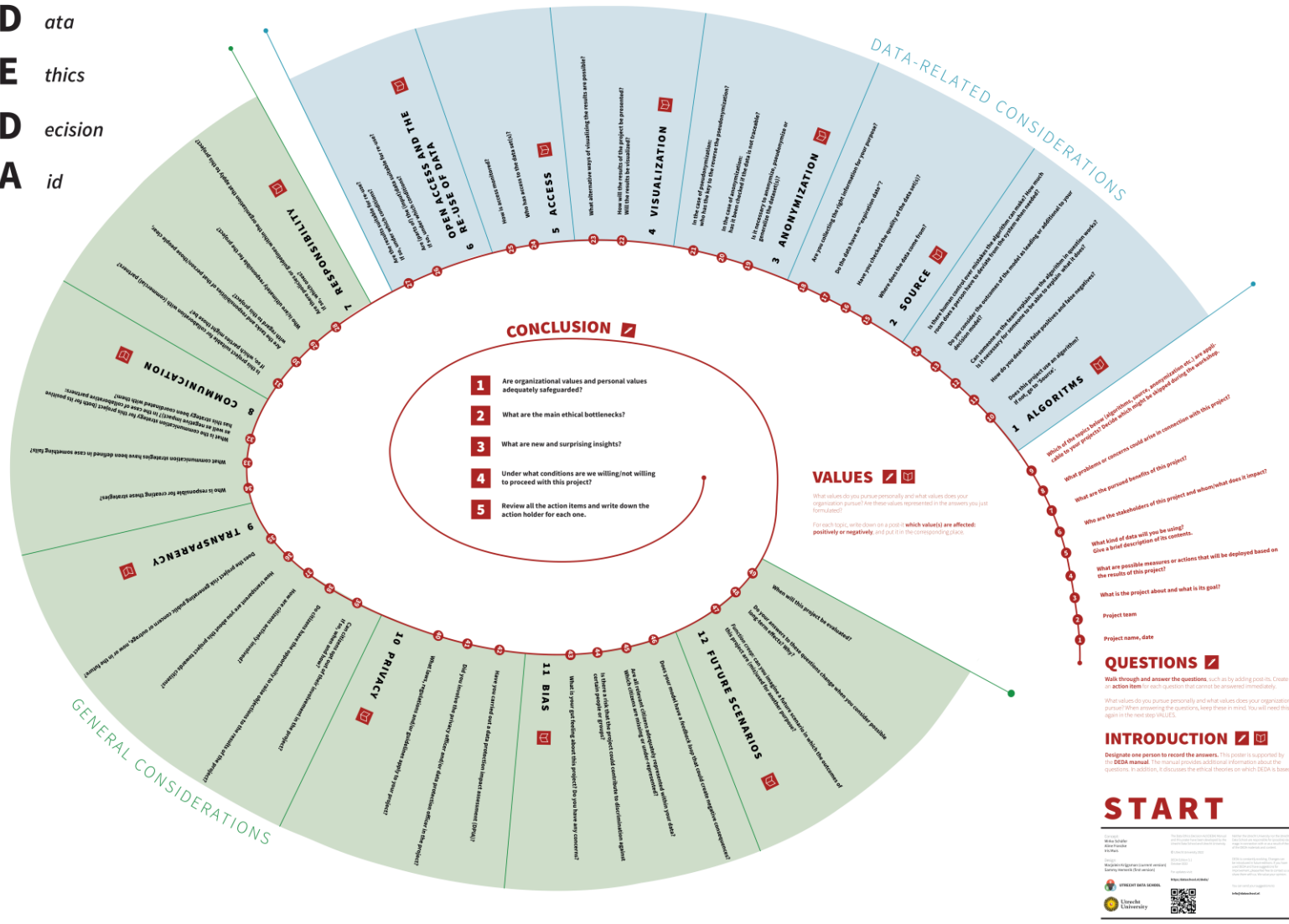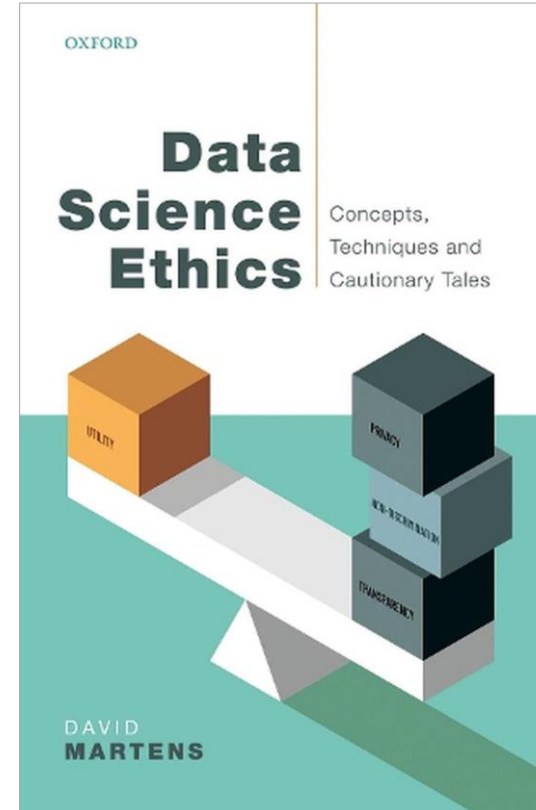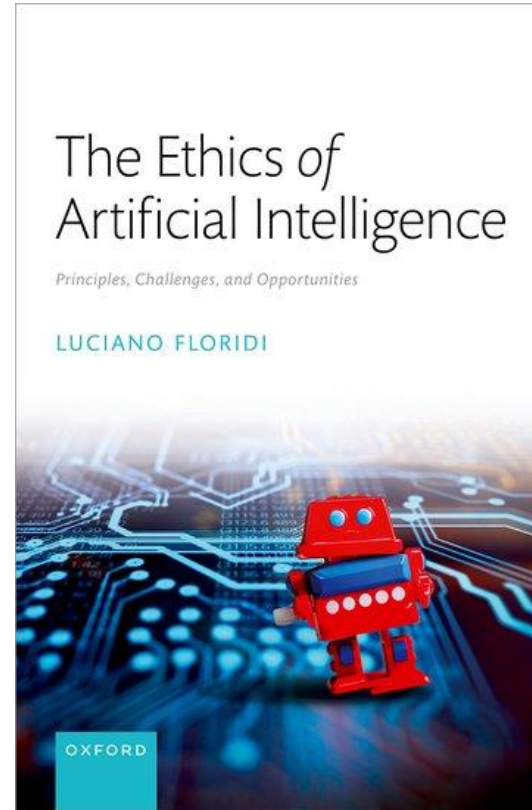3. What are new and surprising insights?
4. Under what conditions are we willing/not willing to proceed with this project?
5. Review all the action items and write down the action holder for each one.

VALUES

What values do you pursue personally and what values does your organization pursue? Are these values represented in the answers you just formulated?

For each topic, write down on a post-it **which value(s) are affected: positively or negatively**, and put it in the corresponding place.

QUESTIONS

Walk through and answer the questions, such as by adding post-its. Create an **action item** for each question that cannot be answered immediately.

What values do you pursue personally and what values does your organization pursue? When answering the questions, keep these in mind. You will need this again in the next step VALUES.

INTRODUCTION

Designate one person to record the answers. This poster is supported by the **DEDA manual**. The manual provides additional information about the questions. In addition, it discusses the ethical theories on which DEDA is based.

START

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The Ethics of Artificial Intelligence
Principles, Challenges, and Opportunities
LUCIANO FLORIDI
OXFORD

OXFORD
Data Science Ethics
Concepts, Techniques and Cautionary Tales
DAVID MARTENS

THANK YOU!

Jurie Florijn