ETHIEK IN BIG DATA EN ALGORITMEN

- > What could possibly go wrong?
- > Algoritmen: Black Box <> Transparantie
- Responsible Data Innovation Matrix (VSD)
- > Ethiek gaat over het organiseren van proces
- Tradities: plicht~; gevolg~; deugd~; zorg~

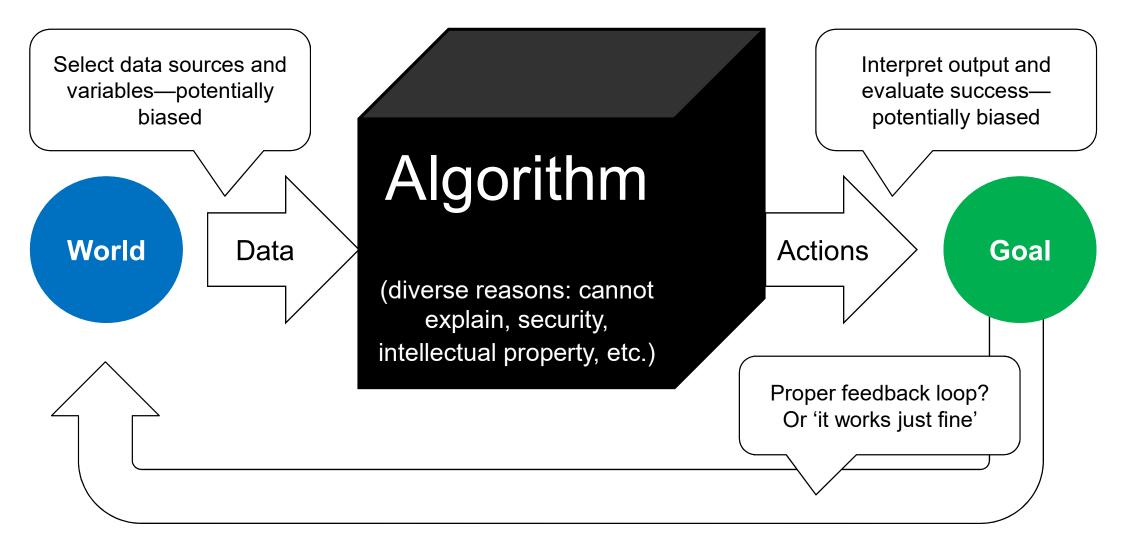


WEAPONS OF MATH DESTRUCTION HOW BIG DATA INCREASES INEQUALITY AND THREATENS DEMOCRACY

"O'Neil, a mathematician, analyses how the use of big data and algorithms in a variety of fields, including insurance, advertising, education, and policing, can lead to decisions that harm the poor, reinforce racism, and amplify inequality."

https://en.wikipedia.org/wiki/Weapons_of_Math_Destruction

TNO innovation for life





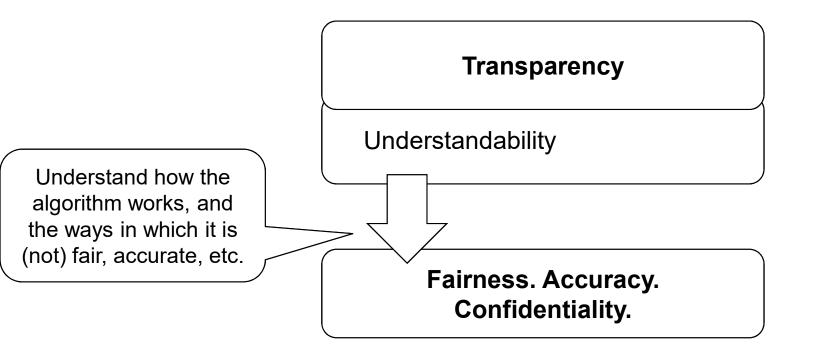
Transparency ('see through')



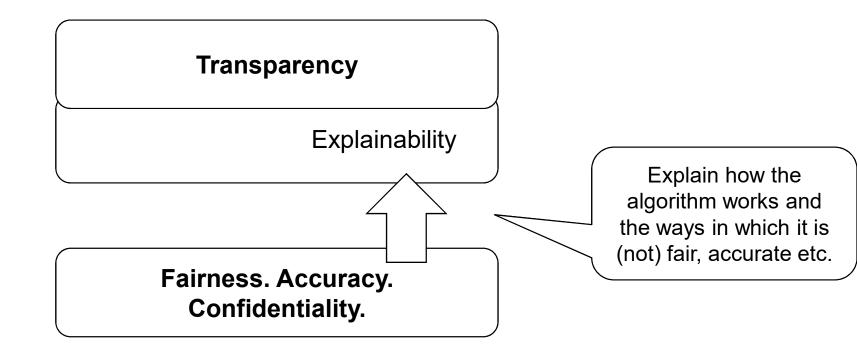
Transparency

Understandability / Explainability

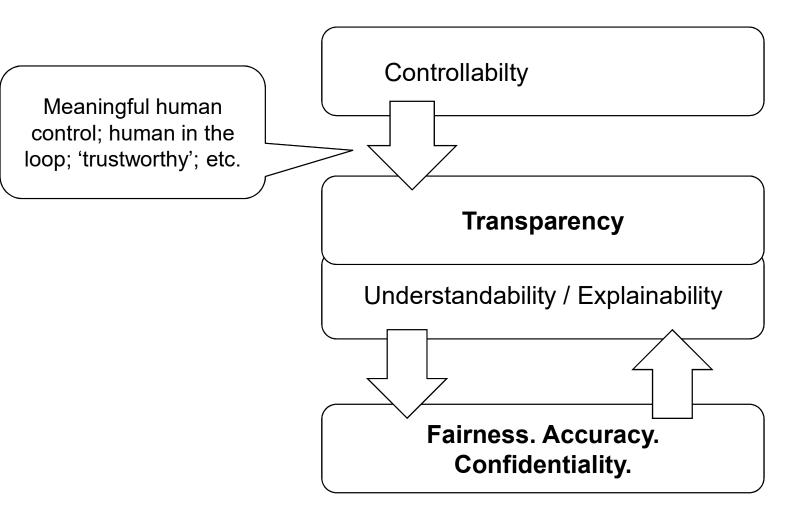


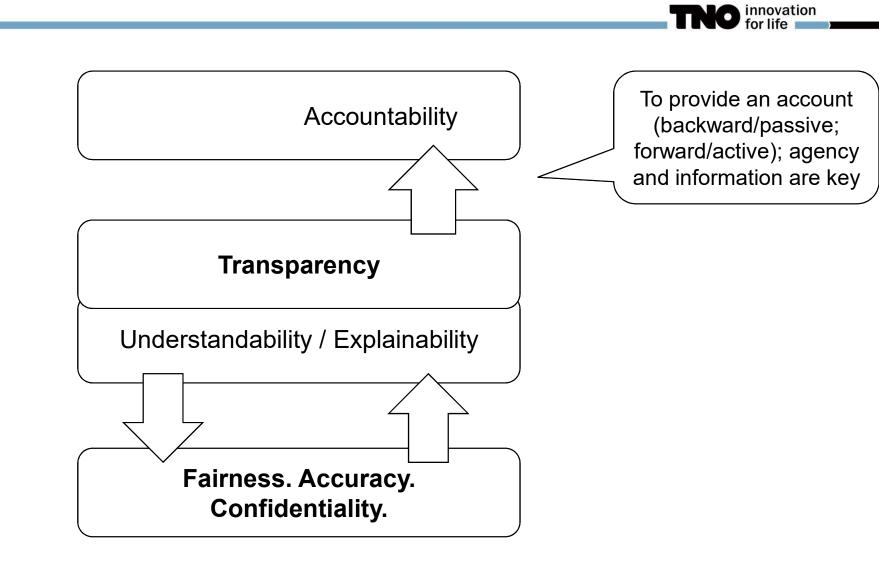




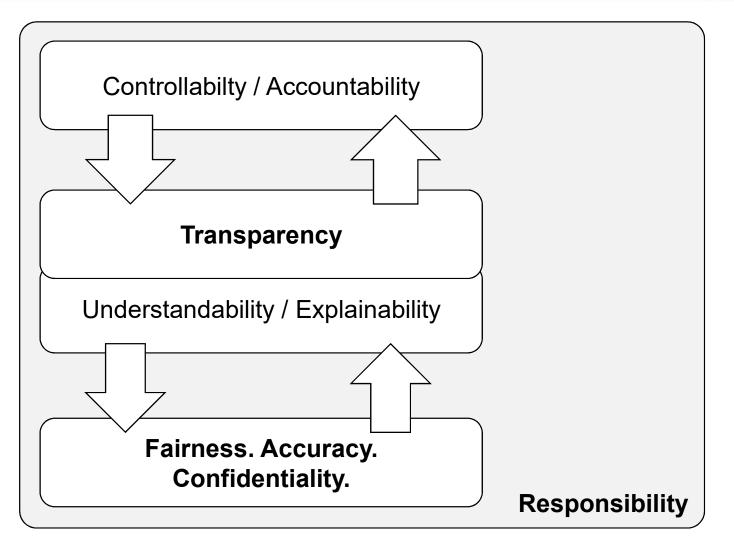














Transparency

Of the algorithm, and of the *processes* and the *organization* in which it is deployed.

And especially concerning the **'goal'** to which it optimizes (incl. feedback loop).



OPLOSSINGEN

	Autonomy and Freedom	Fairness and Equality	Accountability and transparency	Other Values	tior
Data Selection and Collection	E.g., proportionality	E.g., representation of different groups	E.g., informed consent	E.g., privacy	
Data Processing and Modelling	E.g., understandability	E.g., algorithmic fairness	E.g., algorithmic accountability	E.g., solidarity	
Data Presentation and Action	E.g., allocation of agency	E.g., accessibility of the application	E.g., interpretation	E.g., dignity	

https://responsibledatainnovation.wordpress.com/2017/01/17/purpose-of-this-blog/



Ethiek gaat niet over 'goed/fout' of oordelen, maar over het organiseren van een collaboratief en creatief proces:

- 1. Stel (irritante) vragen, over effecten op maatschappij en waarden
- 2. Organiseer (lastige) dialogen met diverse actoren en stakeholders
- 3. Neem besluit, wees accountable (being able to provide an account)



Plichtethiek Gevolgethiek Deugdethiek Zorgethiek (Kant) (Bentham) (Artistoteles) (Gilligan)



DANK VOOR UW AANDACHT

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Meer info:

Responsible Data Innovation:

https://responsibledatainnovation.wordpress.com/

> VWData:

https://www.youtube.com/channel/UCV28qtBBi0V4K2ocVDDLDyw