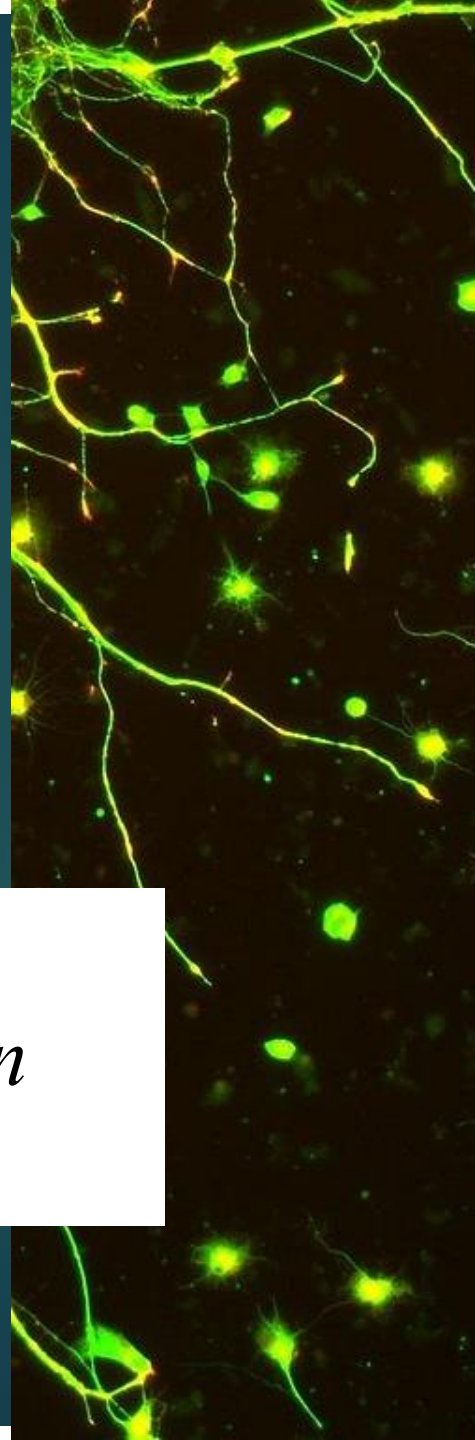


NO ONE LEFT
BEHIND:

Reimagining Our Role in the Era of Disruption





„AI” is a vast topic
This presentation is by nature
limited and subjective
– Kamila Duniec

DISCLAIMER



*AI is the broadest, fastest, most
accessible disruptor of our times*

ARE WE PREPARED?

Raise of Hands



RAISE YOUR HAND - IF YOU **DO NOT FEEL PREPARED**



*AI is the broadest, fastest, most
accessible disruptor of our times*

WHAT HAVE WE LEARNED ABOUT DISRUPTORS?

Key Characteristics of Disruptors

- ▶ Disruptors are 'blind' amplifiers of **human nature**
- ▶ Disruptors **must be regulated and controlled**, otherwise they spread harmful applications
- ▶ Disruptors re-evaluate **human skills**
- ▶ Disruptors lead to economical, political and social **reorganization**
- ▶ Disruptors need to reach a level of **value (ROI) and trust** to integrate into human history

True Disruption happens at the intersection of multiple disruptors



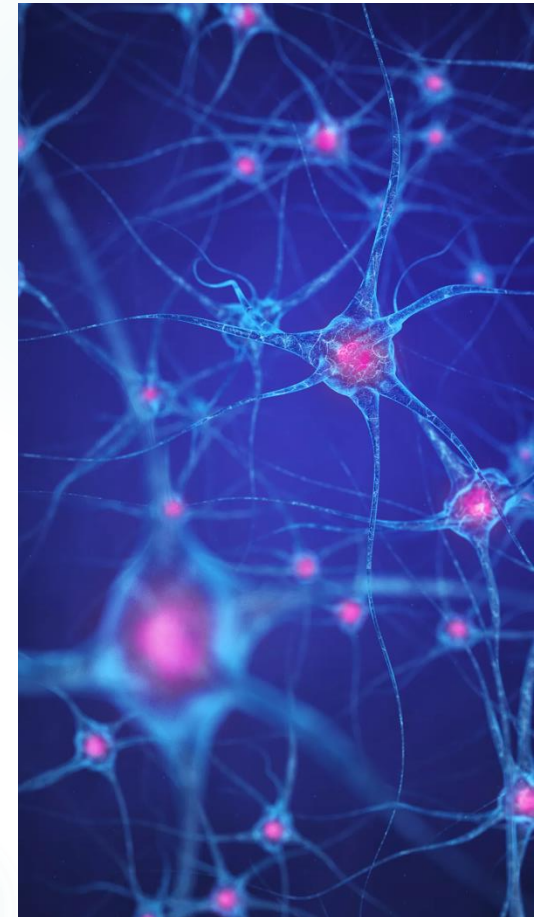
*AI is the broadest, fastest, most
accessible disruptor of our times*

WHAT DO WE KNOW SO FAR?



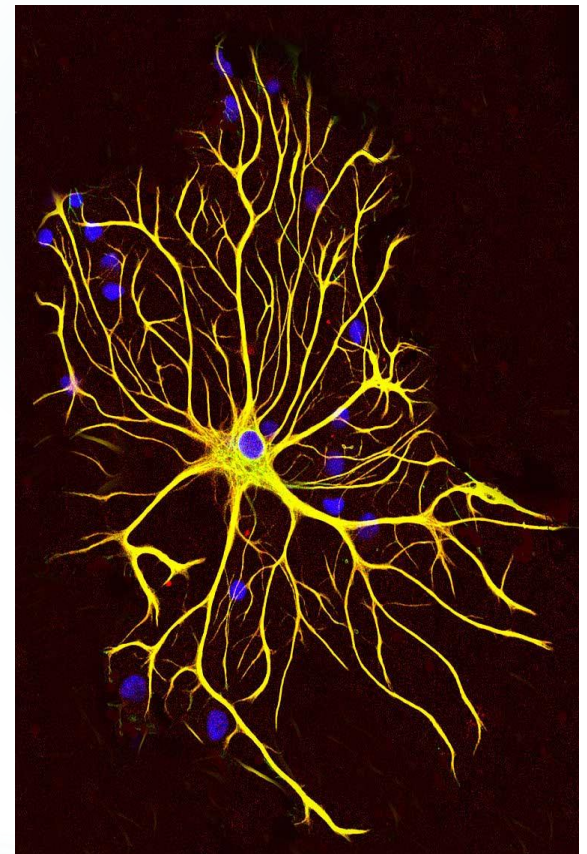
AI greatness

- ▶ AlphaFold project
- ▶ Pharma collaboration (MELLODDY)
- ▶ Diagnostics (DeepGestalt, Diabetic retinopathy, Tuberculosis)
- ▶ Face recognition for family reuniting in war zone
- ▶ Satellite image analysis in disaster response



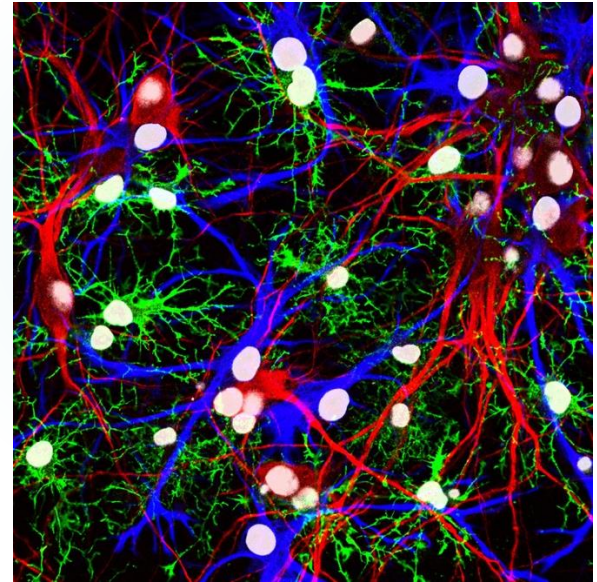
The dark side of human nature through the AI lense

- ▶ Surveillance and social engineering
 - ▶ Chinese surveillance to suppress the Uyghur minority
 - ▶ NSA PRISM project
- ▶ Manipulation and misinformation
 - ▶ Cambridge Analytica
- ▶ Privacy violations and using data for training without consent
 - ▶ Clearview AI (photos from social media)
 - ▶ Google's Project Nightingale (patient records)
 - ▶ Pornography deepfakes



AI weakness

- ▶ Algorithmic bias
 - ▶ Examples in healthcare, recruitment, criminal justice
- ▶ Harmful decisions
 - ▶ Insufficient training data/validation for sepsis prediction model
 - ▶ IBM Watson Health (unsafe and incorrect cancer treatment recommendations)
- ▶ Environmental impact
 - ▶ ~2% of global energy is consumed by AI usage
 - ▶ data centers often draw water from water-stressed regions
- ▶ Cognitive impact
 - ▶ Laziness, poor decision making



This Photo by Unknown Author is licensed under [CC BY-SA-NC](#)



*AI is the broadest, fastest, most
accessible disruptor of our times*

WHAT DO WE CHOOSE TO DO?

What are the options?

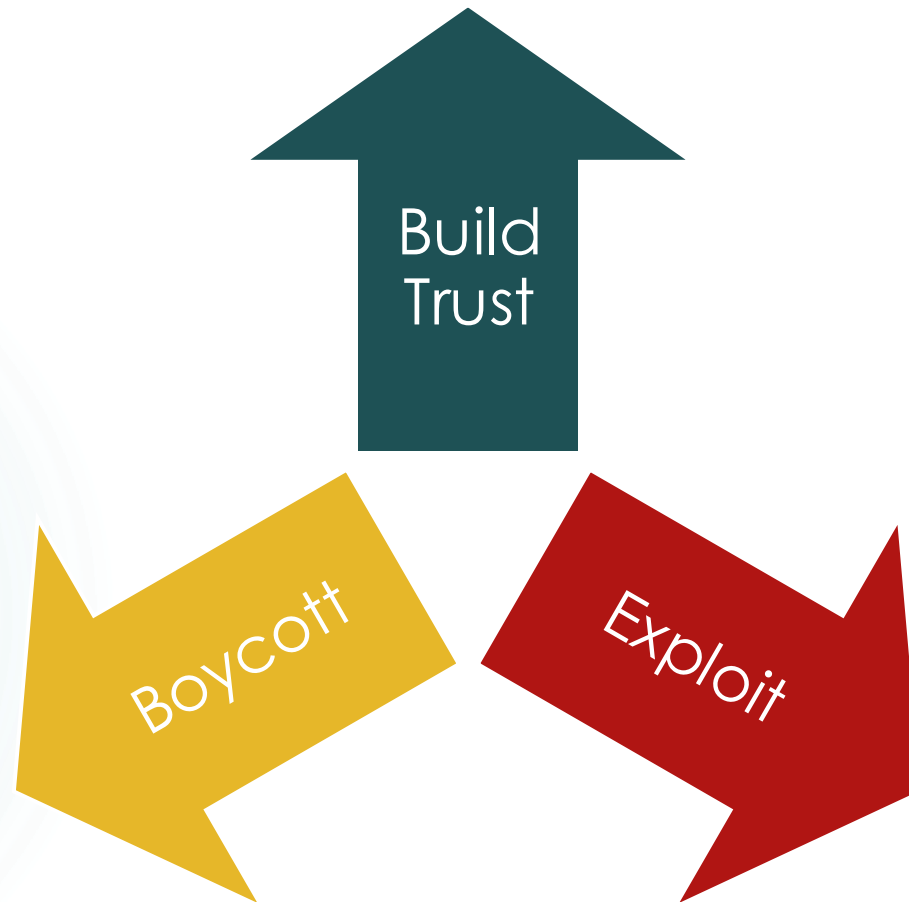


Boycott



Exploit

What are the options?



The AI Manifesto

in the industry of trust

- ▶ Safety over speed
- ▶ Governance over maximization
- ▶ Outcomes over models
- ▶ Transparency over capability
- ▶ Ethics over compliance
- ▶ Accountability over model autonomy
- ▶ Collaboration over competitiveness
- ▶ Human rights over economic gain

Transparency

Collaboration

Public interest

Human
governance

NO ONE LEFT BEHIND

References

- ▶ DeepMind's AlphaFold: <https://www.nature.com/articles/s41586-021-03819-2>
- ▶ DeepGestalt and rare disease diagnostics: <https://www.nature.com/articles/s41591-018-0279-0>
- ▶ Diabetic retinopathy: <https://jamanetwork.com/journals/jama/fullarticle/2588763>
- ▶ Universal access to rapid tuberculosis diagnostics, WHO: <https://iris.who.int/bitstream/handle/10665/366854/9789240071315-eng.pdf?sequence=1>
- ▶ Drug discovery collaboration, MELLODDY: <https://www.ih.europa.eu/projects-results/project-factsheets/melloddy>
- ▶ AI bias in law enforcement: <https://www.europol.europa.eu/publications-events/publications/ai-bias-in-law-enforcement>
- ▶ IA and human laziness: <https://www.nature.com/articles/s41599-023-01787-8>

References cont.

- ▶ AI chatbots and cognitive health
<https://pmc.ncbi.nlm.nih.gov/articles/PMC11020077/>
- ▶ NSA PRISM project
<https://www.theguardian.com/world/2013/jun/06/us-tech-giants-nsa-data>
- ▶ AI and energy demand
<https://www.sustainabilitybynumbers.com/p/ai-energy-demand>
- ▶ Water use by data centers
[https://sdgs.un.org/sites/default/files/2024-05/Gupta%2C%20et%20al. AI%20excessive%20water%20consumption.pdf](https://sdgs.un.org/sites/default/files/2024-05/Gupta%2C%20et%20al.%20AI%20excessive%20water%20consumption.pdf)
- ▶ Stanford Medicine 2023 Survey
<https://med.stanford.edu/dean/healthtrends.html>