

# Unintended consequences of AI

May 2024

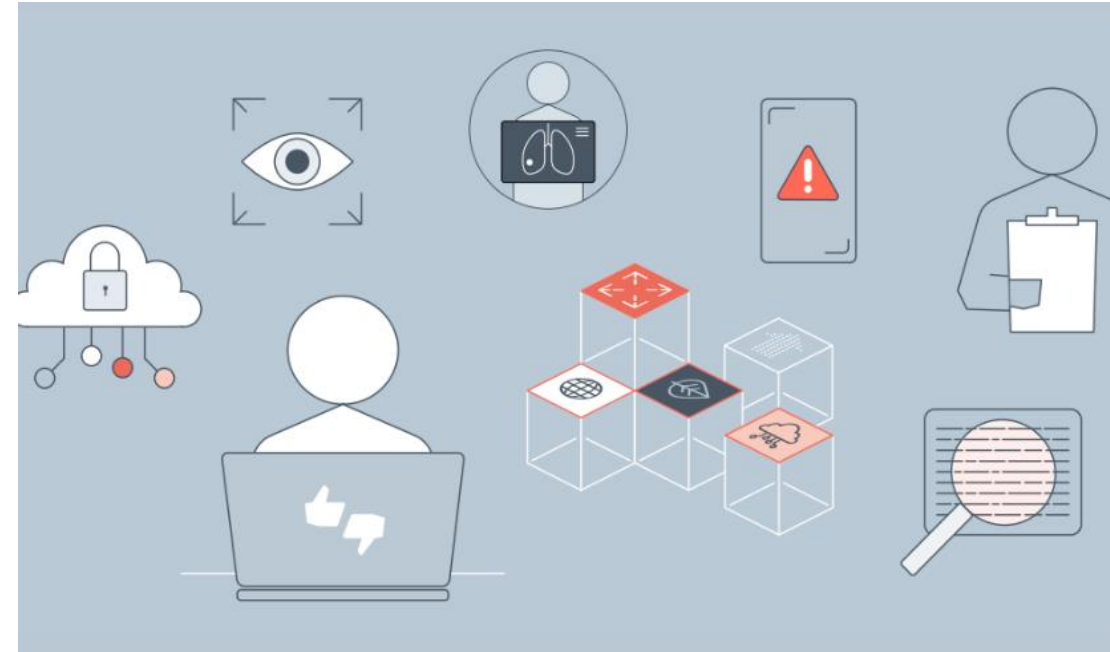
Fran Bennett



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# About the Ada Lovelace Institute

The Ada Lovelace Institute is an independent research institute with a mission to make data and AI work for people and society.





*Tina Ricky*

ARTIFICIAL INTELLIGENCE

# Sam Altman Calls AI 'Most Important Step Yet' for Humans, Tech

## OpenAI CEO Sam Altman Says AI Could End Poverty

BY PYMNTS | JUNE 23, 2023



UNIVERSALLY BAD HEALTHCARE

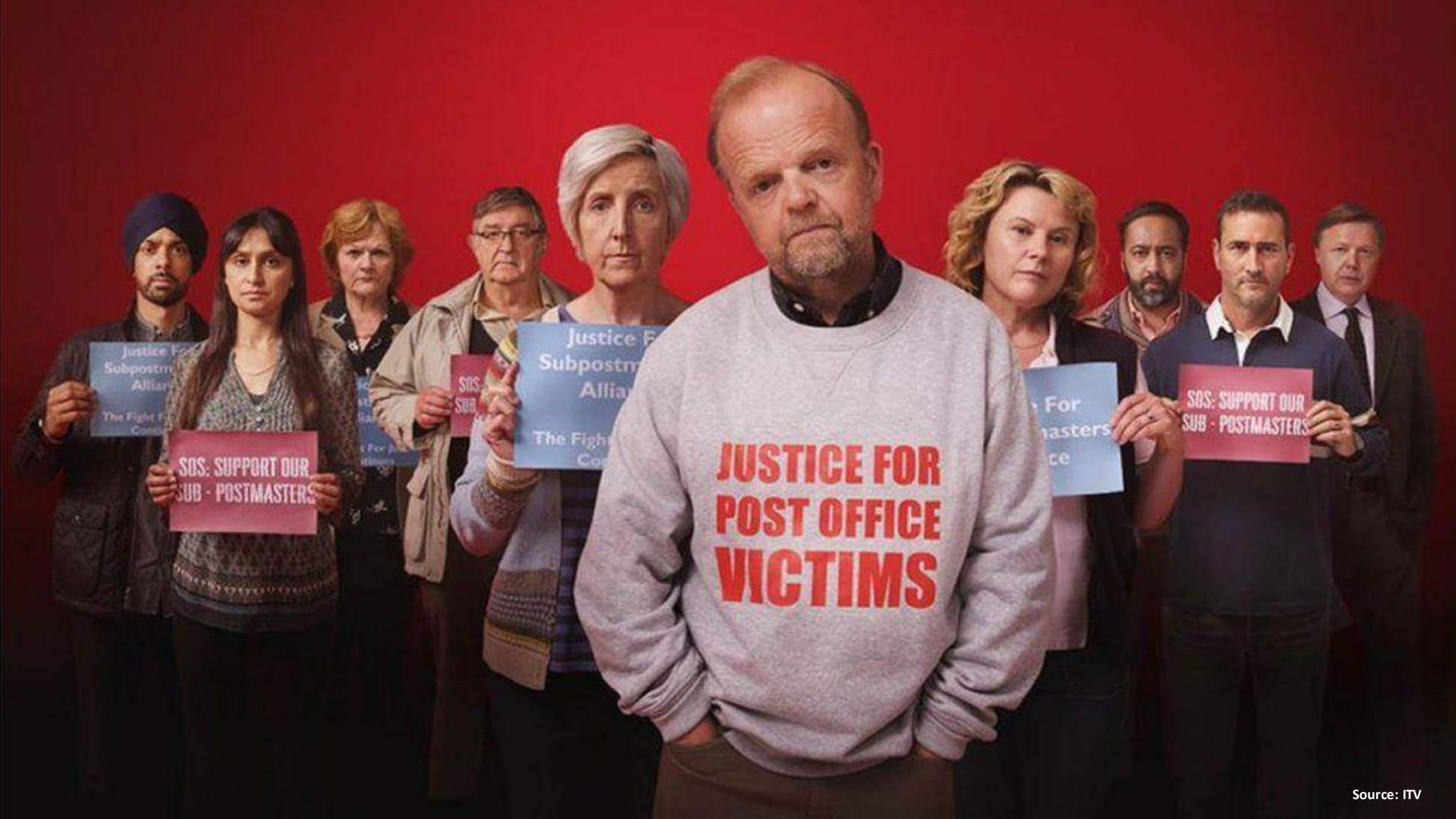
OPENAI CEO SAYS AI WILL GIVE  
MEDICAL ADVICE TO PEOPLE TOO  
POOR TO AFFORD DOCTORS

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Impossible Tasks	Conceptually Impossible Practically Impossible
Engineering Failures	Design Failures Implementation Failures Missing Safety Features
Post-Deployment Failures	Robustness Issues Failure under Adversarial Attacks Unanticipated Interactions
Communication Failures	Falsified or Overstated Capabilities Misrepresented Capabilities

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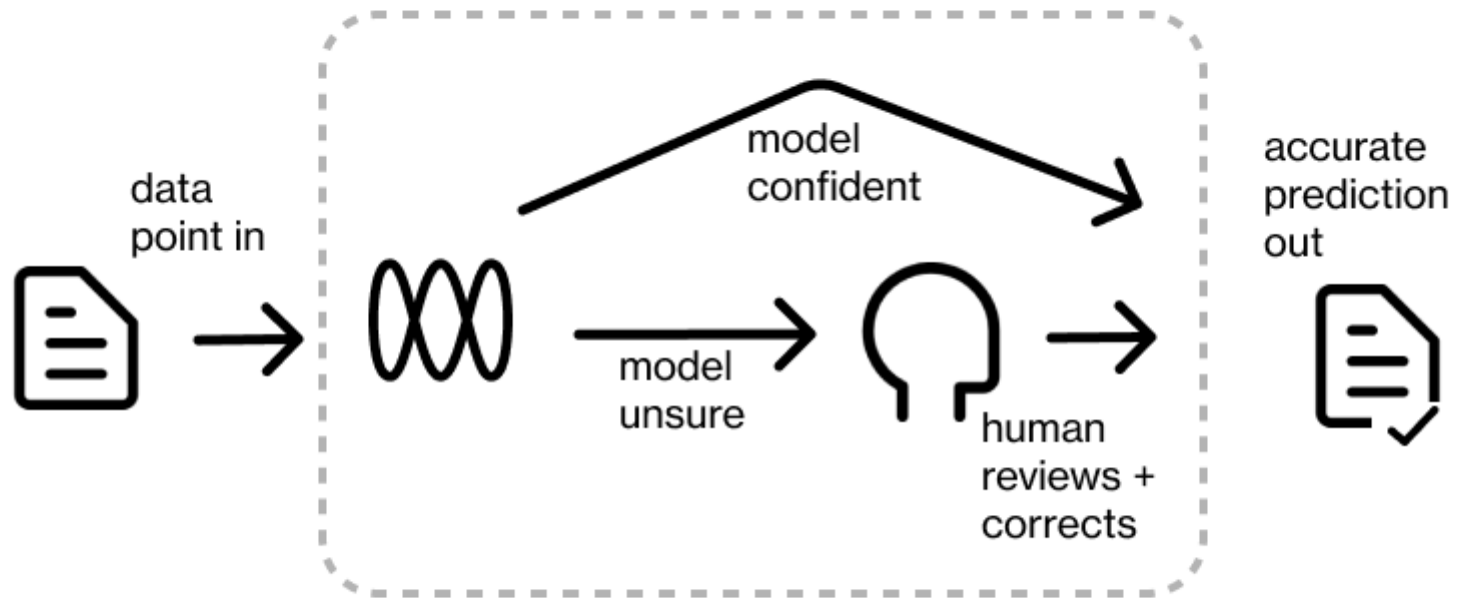
**Source:** The Fallacy of AI Functionality, Raji et al, June 2022



**JUSTICE FOR  
POST OFFICE  
VICTIMS**

**SOS: SUPPORT OUR  
SUB-POSTMASTERS**

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SUB-POSTMASTERS**



## Workers-in-the-Loop AI deployment

∞ Humanloop



APPLE



APPLE



BANANA



ORANGA



LEAME



ORANGE



GRANDE



ORAWBERY



SRAND IA



'STRAWBERRY



BAWO



STRAWERRY



STRAWBERRY



CHERPES



CHERRY



J'FIRO



LEMON



CHERRY



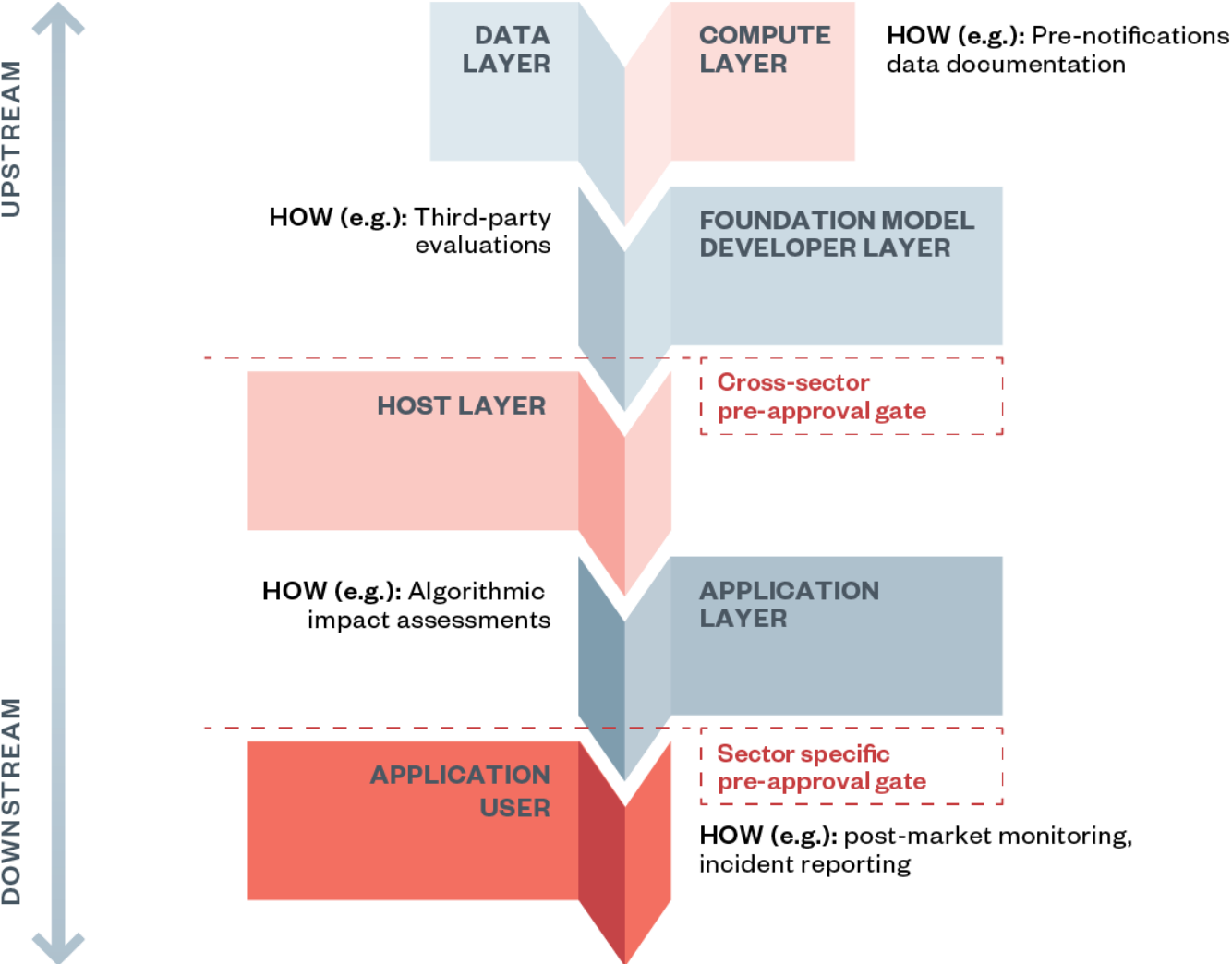
PEAR



PEAR



# Figure 2: FDA-style oversight for foundation models



Source: Ada Lovelace Institute

- **Biases** from the training data or feedback process
- **Black box** and **stochastic** models – can't investigate why they do what they do, and outputs are a little different each time
- **Non-transparent supply chain** – what was the input data? What was the feedback process? Are there extra control layers?

- **Test safety in a crash** – as we do with cars
- **Assign liability for harm** – as we do with food poisoning
- **Hear voices of those affected** – as we do with planning permission
- **Right to contest decisions and request explanations** – as we do with human bureaucracies

# Thank you

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