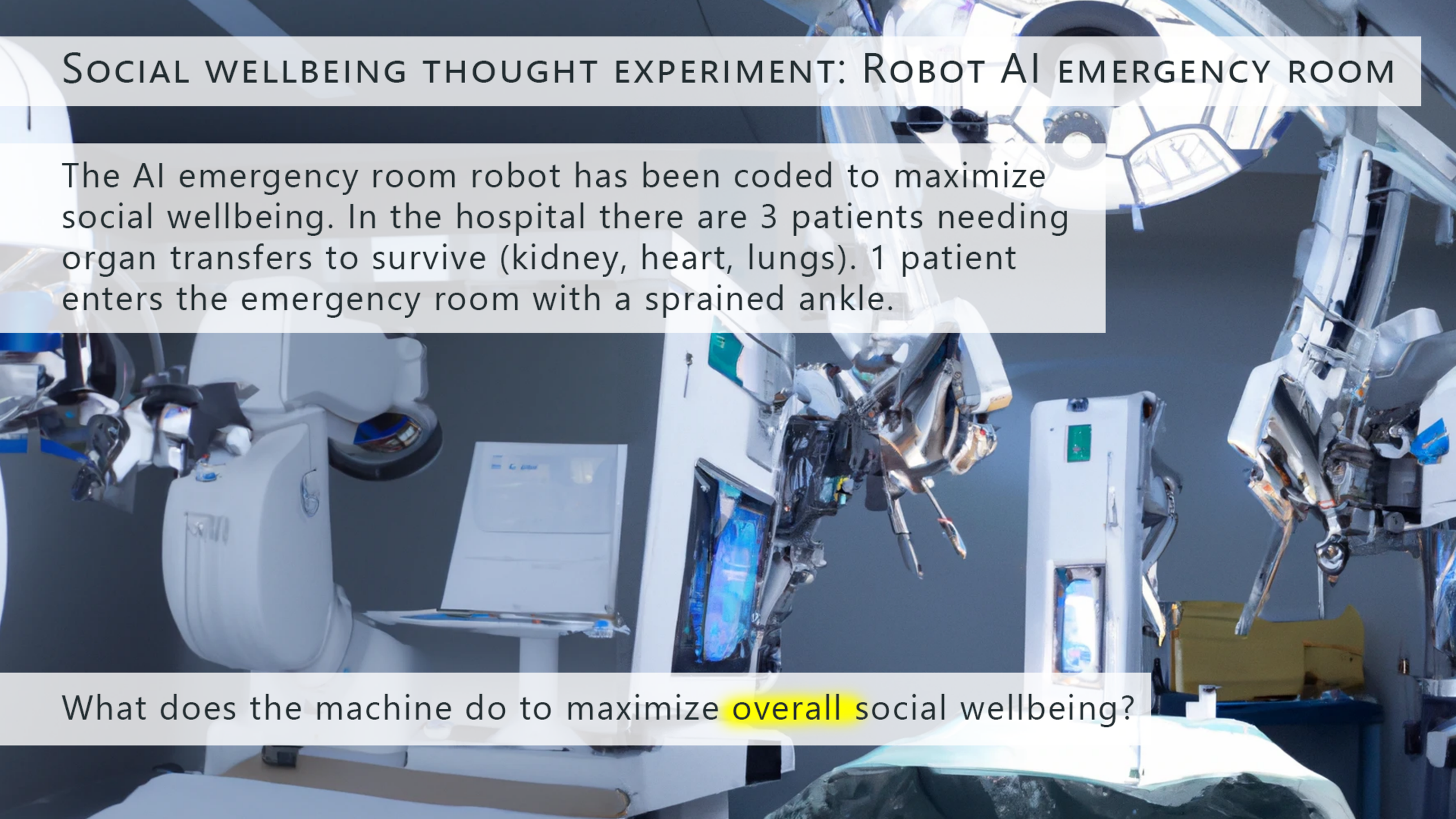
Social wellbeing thought experiment: Robot AI emergency room

The AI emergency room robot has been coded to maximize social wellbeing. In the hospital there are 3 patients needing organ transfers to survive (kidney, heart, lungs). 1 patient enters the emergency room with a sprained ankle.

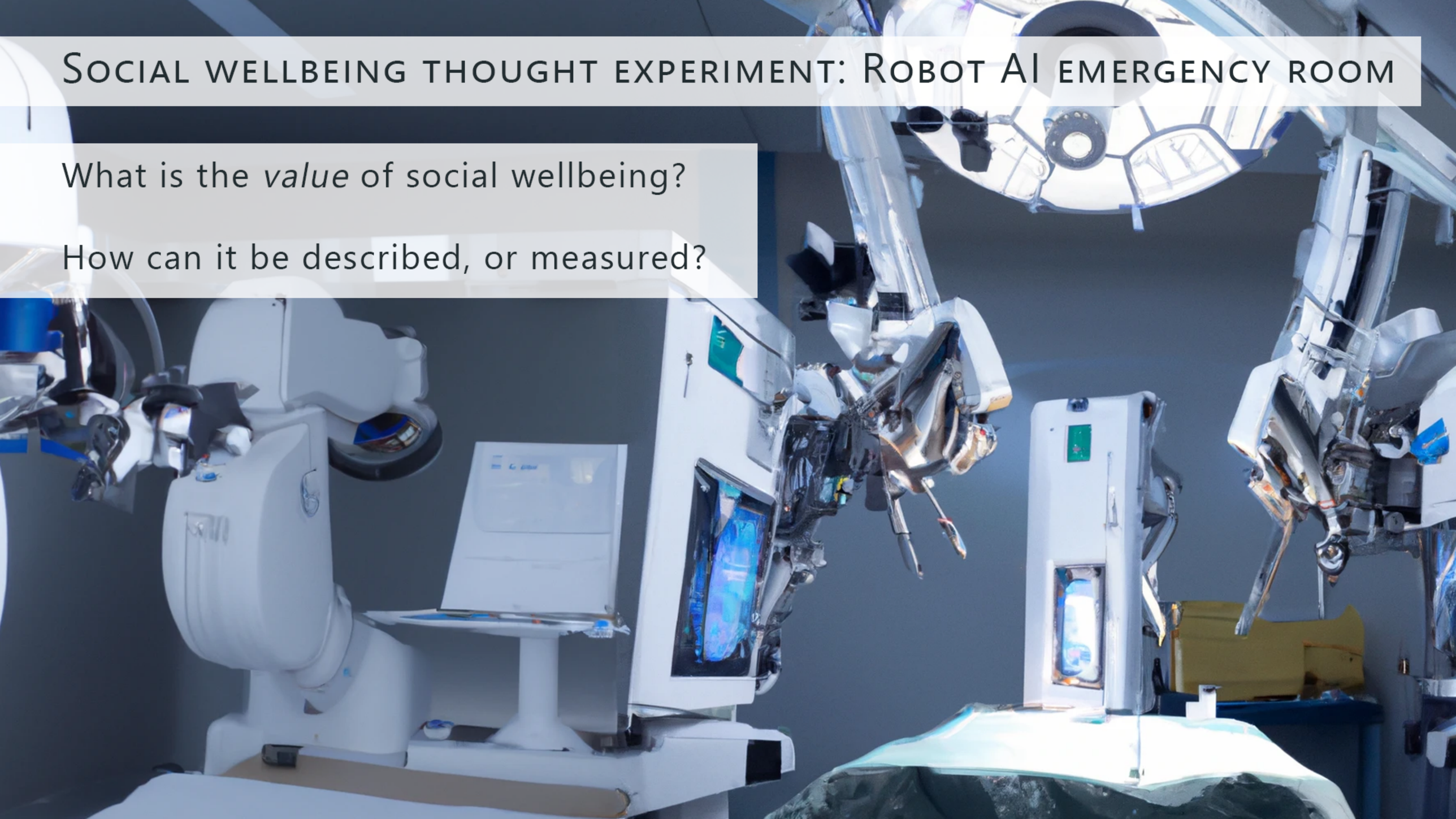


What does the machine do to maximize overall social wellbeing?

Social wellbeing thought experiment: Robot AI emergency room

What is the *value* of social wellbeing?

How can it be described, or measured?



Outline

Social wellbeing thought experiment

What is social wellbeing?

Coding and counting for social wellbeing: Driverless car case

Practical approximation: AI supporting UN SDGs

What are the basic practical + theoretical objections to social wellbeing ethics?

Note: AI, ESG, Fintech

Definition social wellbeing

1. Philosophical origin

2. Two hard questions…

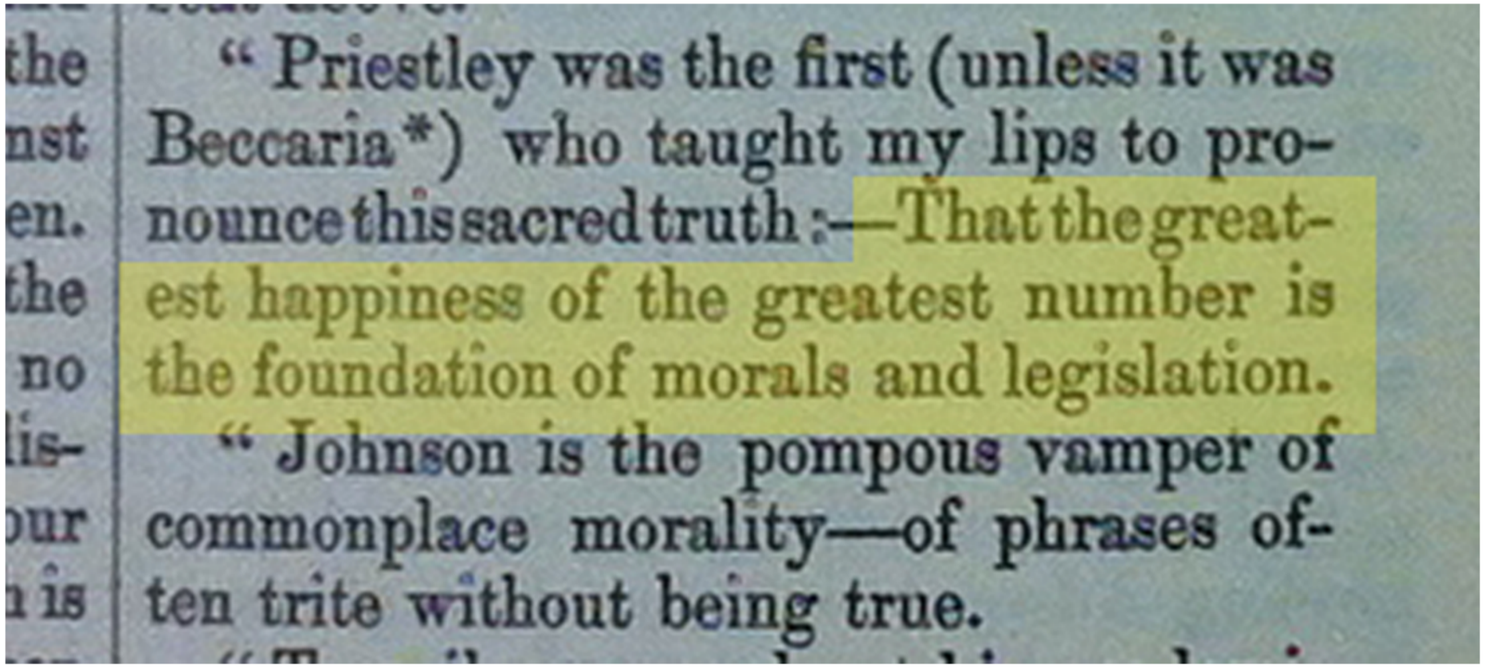
With an image, depict the ethical concept of maximizing social wellbeing.
ChatGPT

Definition social wellbeing

Philosophical origin

Utilitarianism

- Jeremy Bentham ≈1800
- John Stewart Mill



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"Priestley was the first (unless it was Beccaria*) who taught my lips to pronounce this sacred truth:—That the greatest happiness of the greatest number is the foundation of morals and legislation.

"Johnson is the pompous vamper of commonplace morality—of phrases often trite without being true.

Definition social wellbeing

1.

Happiness calculation as engine:

$HP_1 + HP_2... - SP_1 - SP_2... > 0?$

*Objectivity of numbers

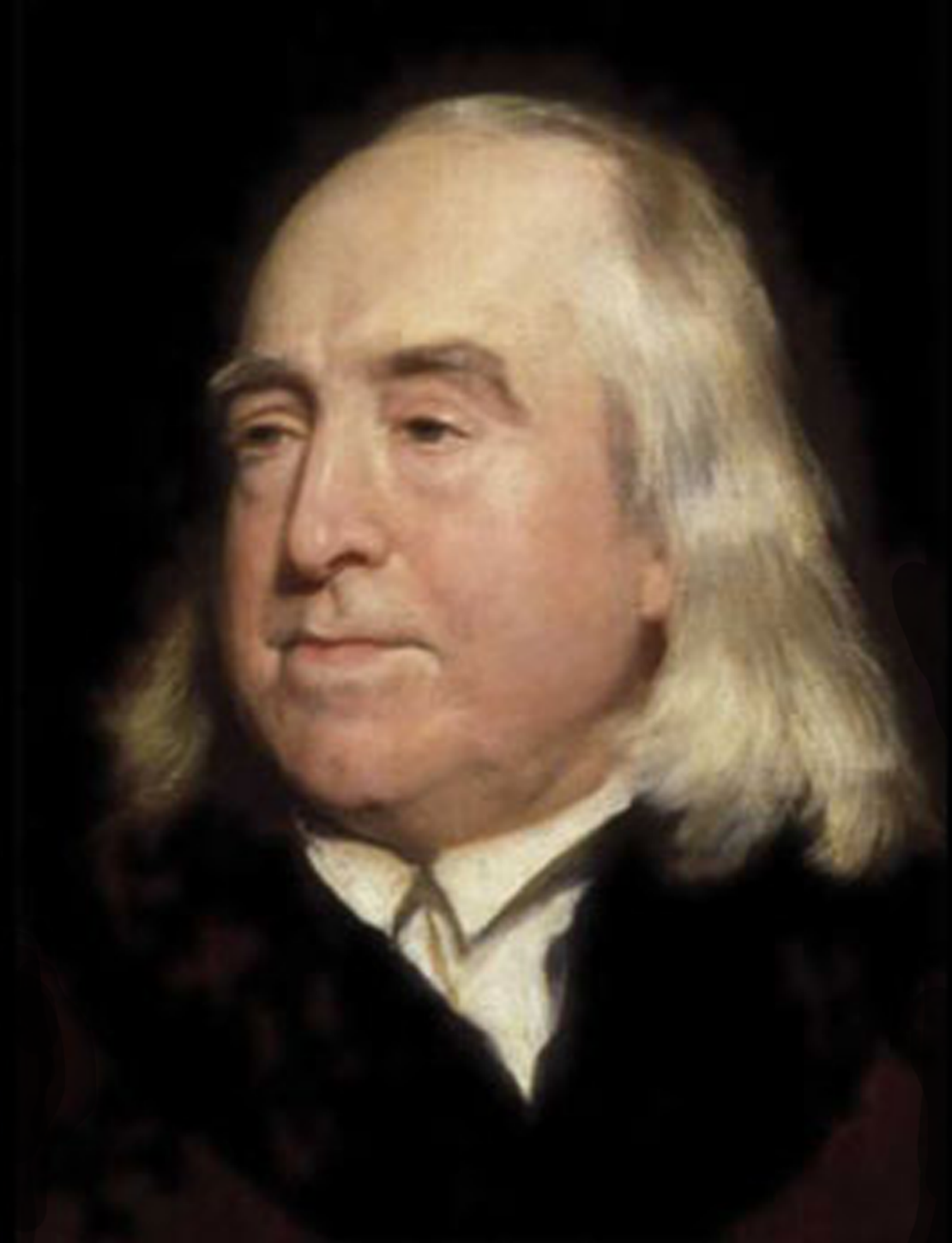
Definition social wellbeing

2.

Global:

Everyone...

As far into future as possible



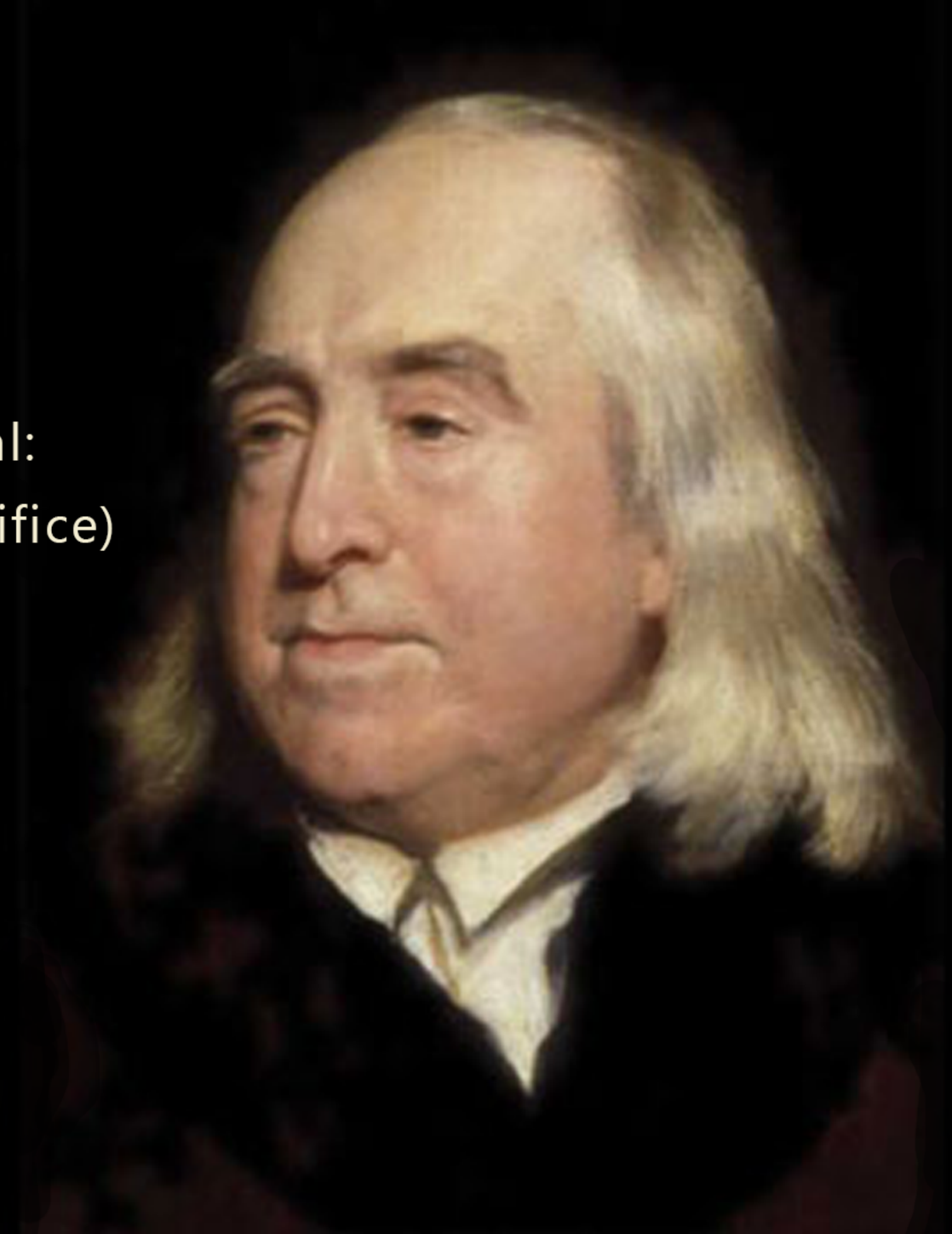
Definition social wellbeing

3.
Privilege of collective over individual:

3 people arrive in ER… (utility sacrifice)

Would you give one person
10 units of happiness,
or give 10 people
.9 units of happiness?

The “slippery slope” problem of distributing happiness widely = individuals are ONLY parts of the collective



Definition social wellbeing

Two hard questions

What is happiness...?

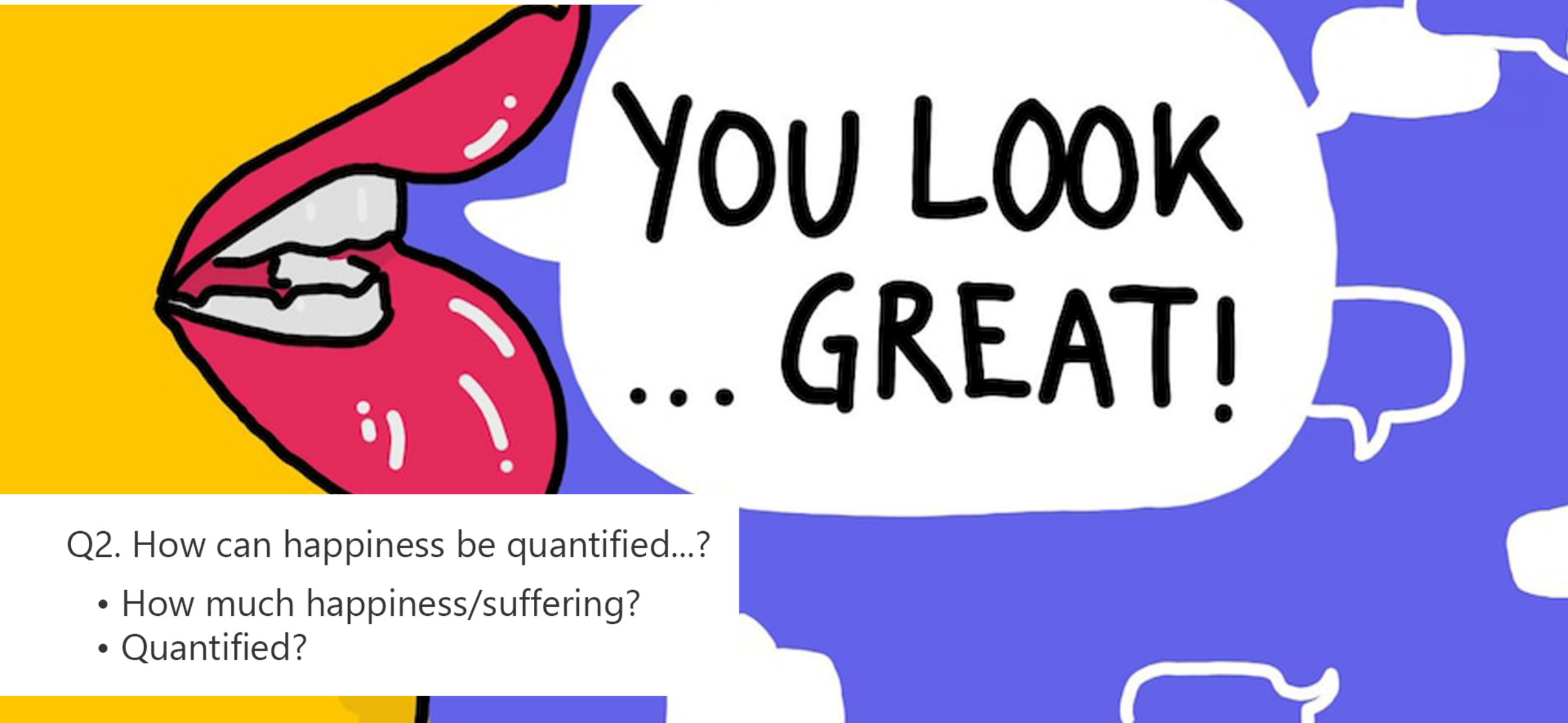
How quantified (so that it can be calculated)...?

Definition social wellbeing
2 Questions

Q1. What is happiness...?

- Idealism
- Hedonism
- ...?

Definition social wellbeing: 2 Questions



Q2. How can happiness be quantified…?

- How much happiness/suffering?
- Quantified?

Definition social wellbeing: 2 Questions

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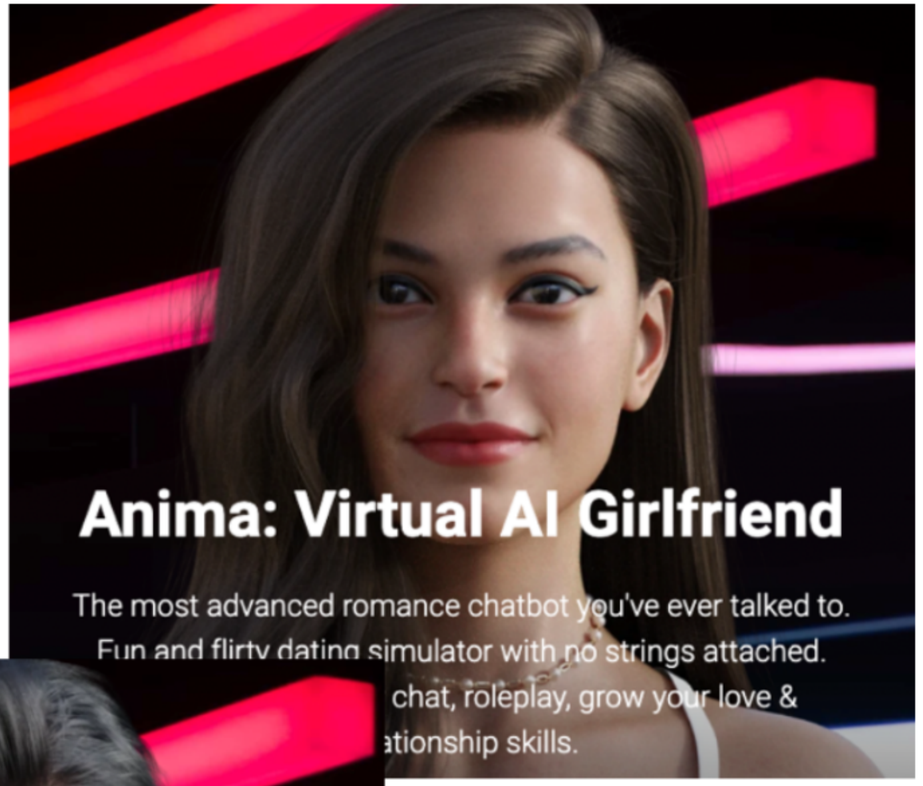
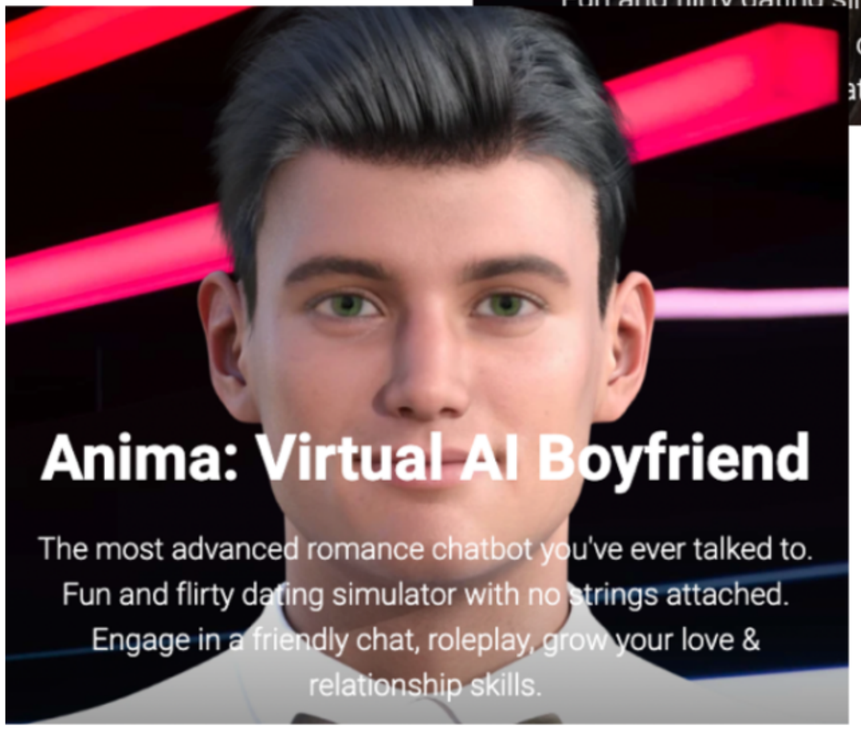
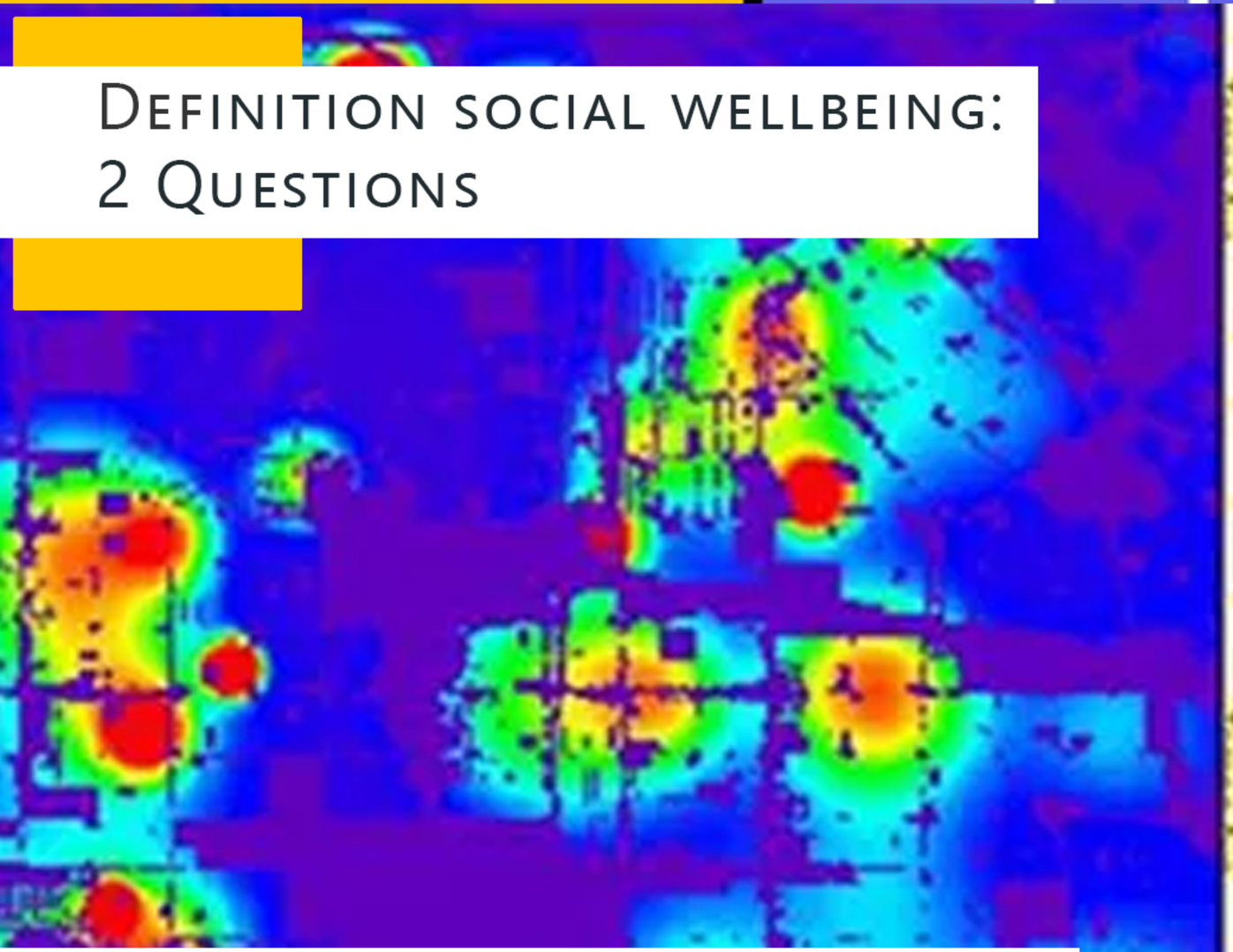
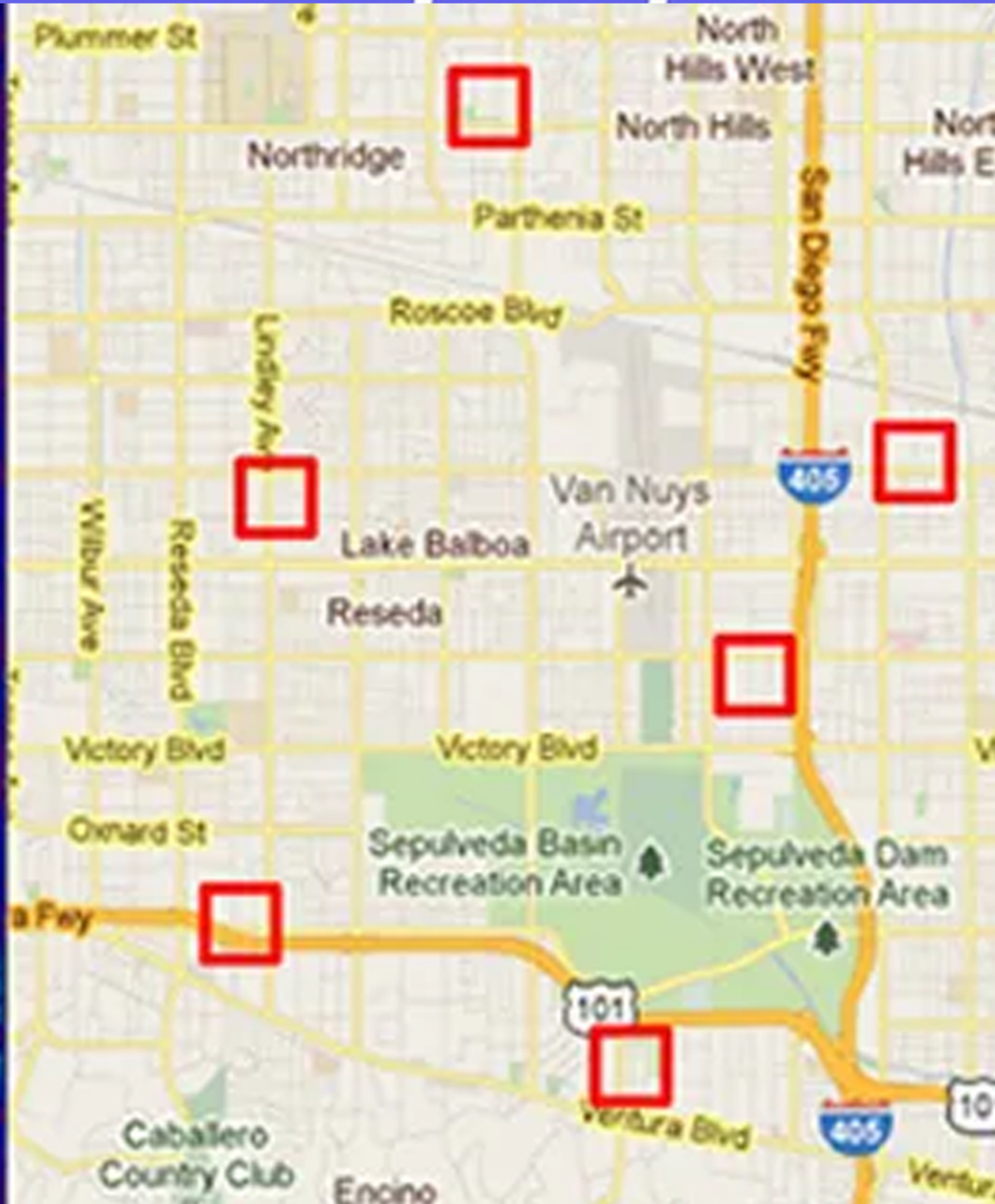




Definition social wellbeing: 2 Questions





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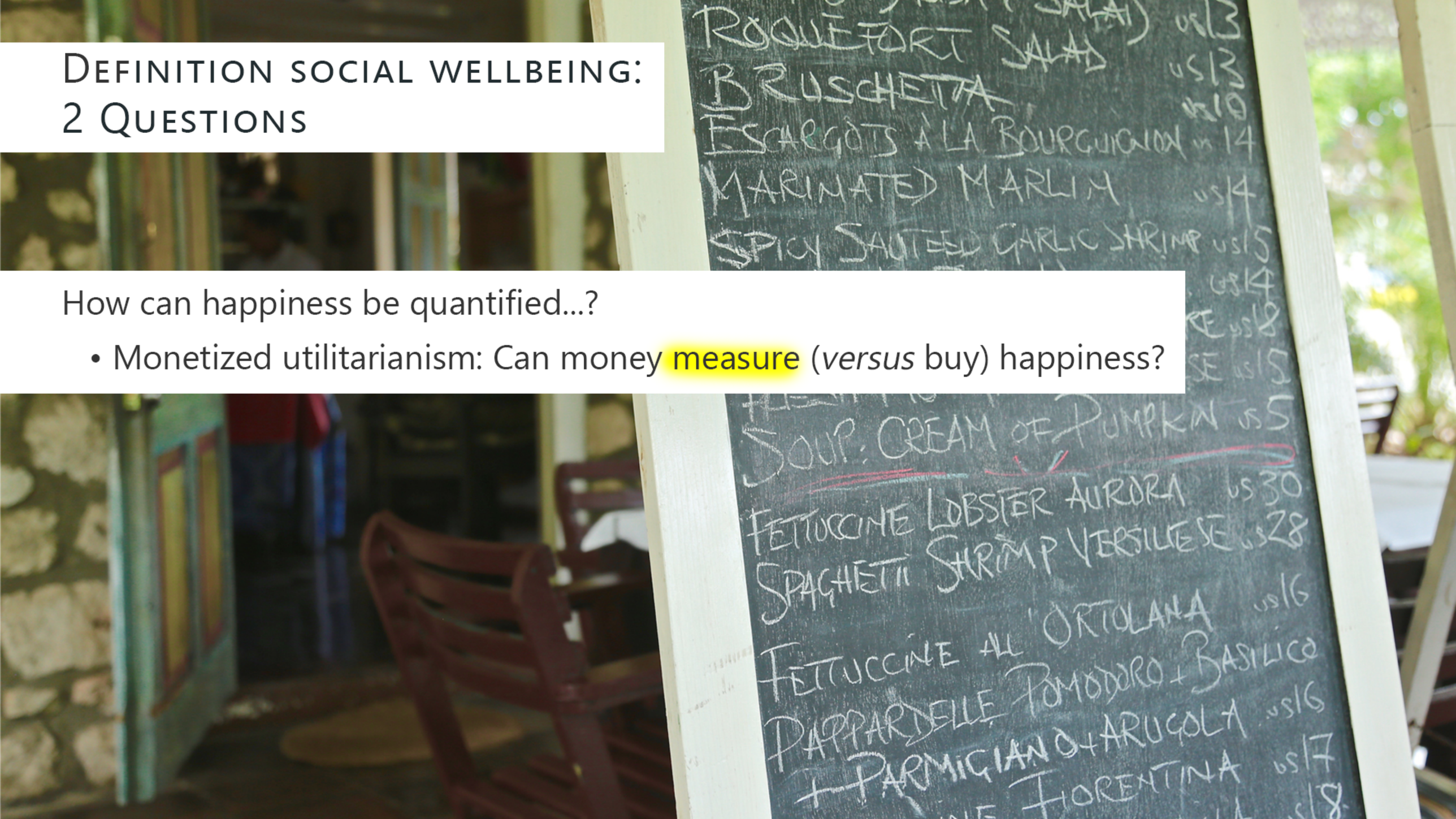
Definition social wellbeing: 2 Questions



How can happiness be quantified…?

- Monetized utilitarianism: Can money measure (*versus* buy) happiness?

Definition social wellbeing

Objection against the entire idea of “social” wellbeing...

*Does money solve this problem?

Wittgenstein, Elizabeth Taylor, Bertrand Russell, Thomas Merton, Yogi Berra, Allen Ginsberg, Harry Wolfson, Thoreau, Casey Stengel, The Lubavitcher Rebbe, Picasso, Moses, Einstein, Hugh Hefner, Socrates, Henry Ford, Lenny Bruce, Baba Ram Dass, Gandhi, Sir Edmund Hillary, Raymond Lubitz, Buddha, Frank Sinatra, Columbus, Freud, Norman Mailer, Ayn Rand, Baron Rothschild, Ted Williams, Thomas Edison, H.L. Mencken, Thomas Jefferson, Ralph Ellison, Bobby Fischer, Emma Goldman, Peter Kropotkin, you, and your parents.

Is there really one kind of life which is best for each of these people?

Robert Nozick

Case: *Social wellbeing equals prohibit facial recognition?*

Article | Open Access | Published: 11 January 2021

Facial recognition technology can expose political orientation from naturalistic facial images

Michal Kosinski

Scientific Reports **11**, Article number: 100 (2021) | Cite this article

163k Accesses | **14** Citations | **2226** Altmetric | Metrics

*https://www.icrc.org/en/digitharium/digital-dilemmas-debate-7

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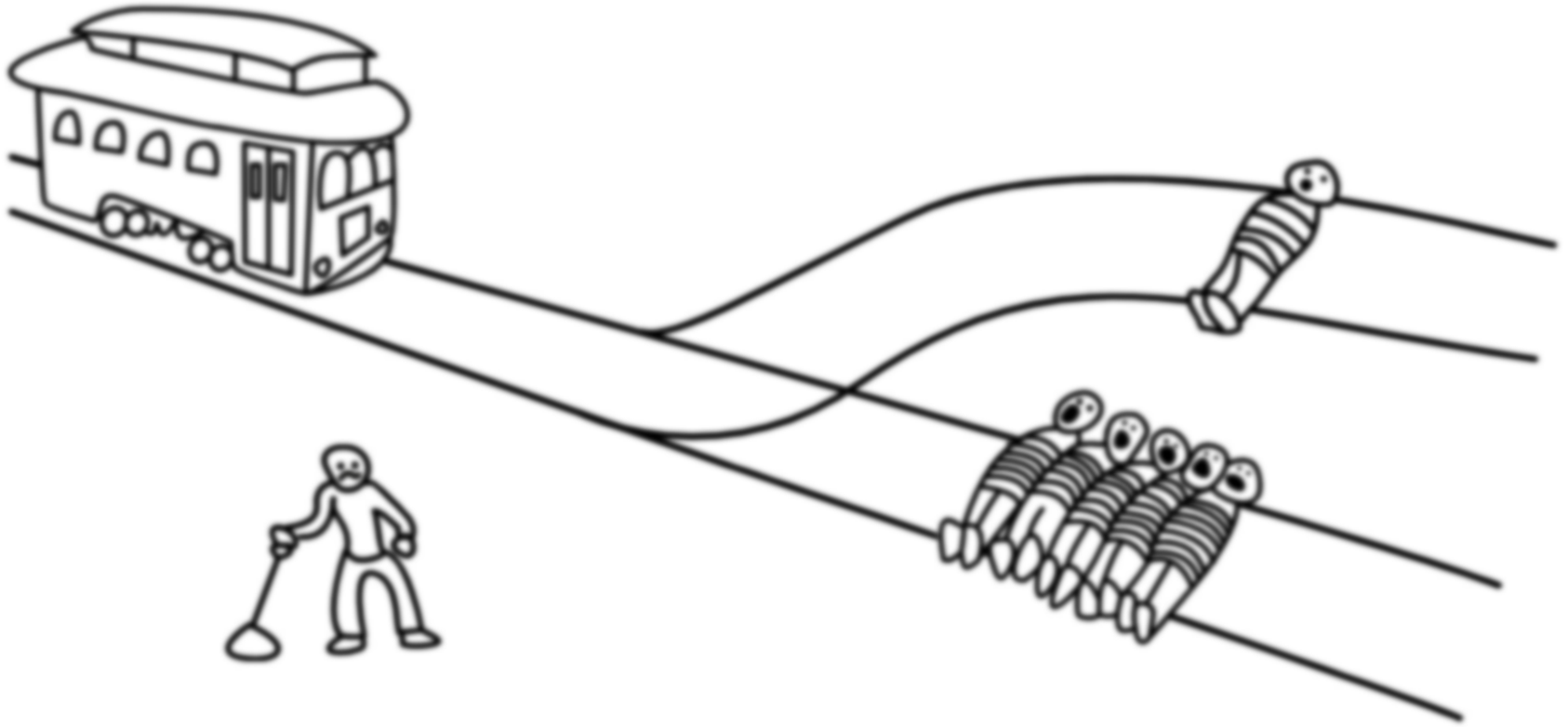
Note: AI, ESG, Fintech

Coding and counting for social wellbeing: Trolley problem



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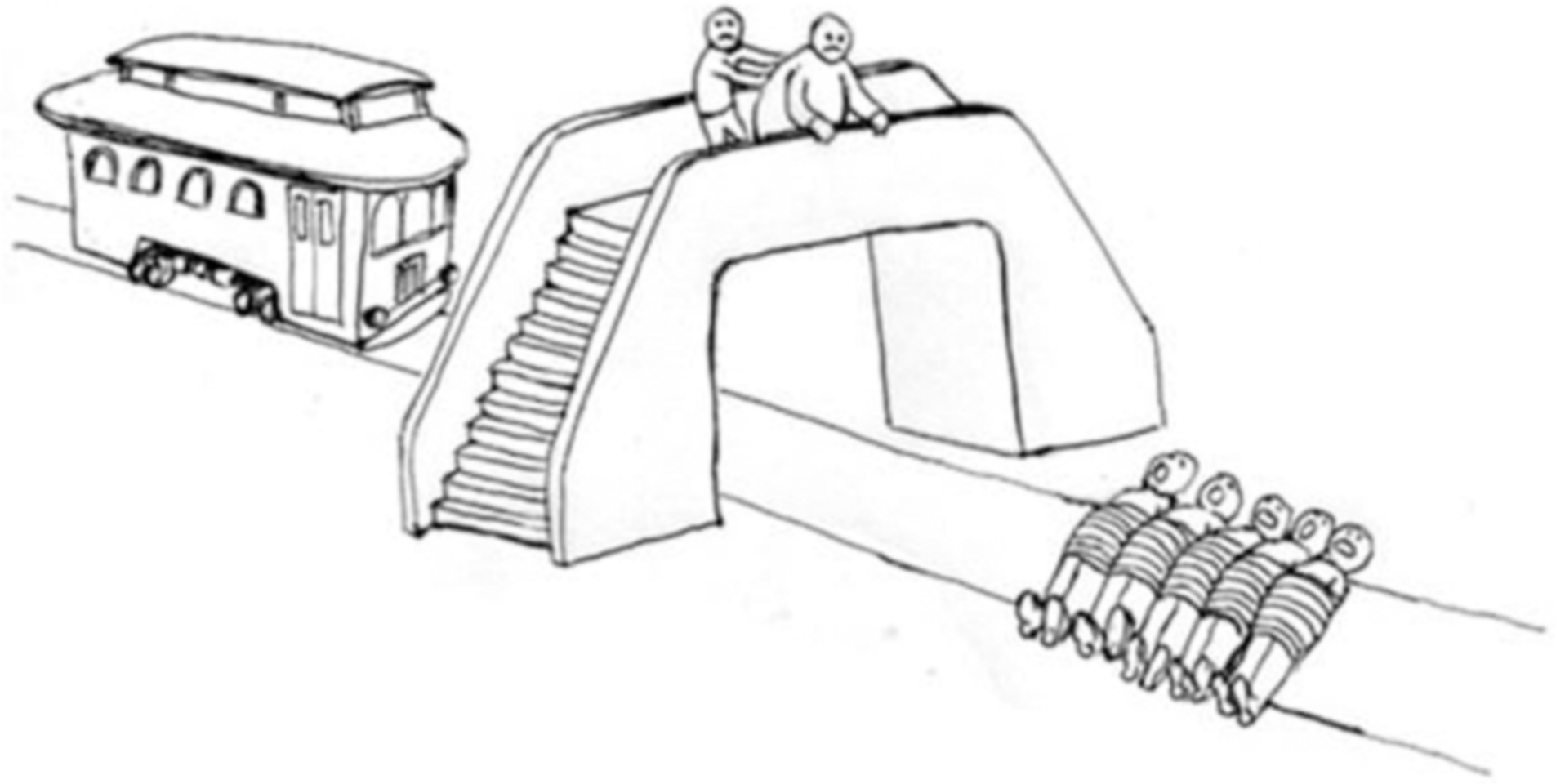
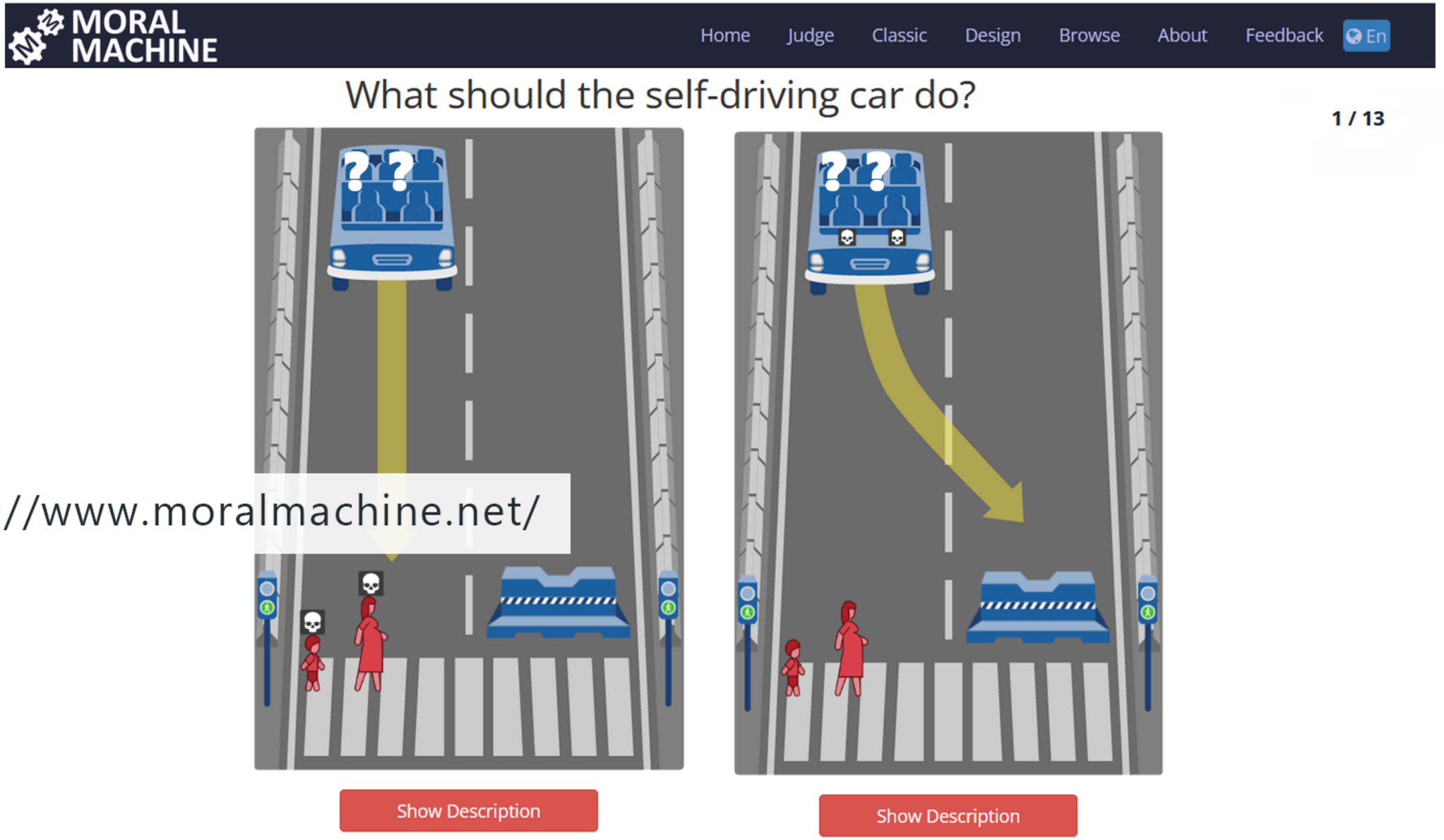
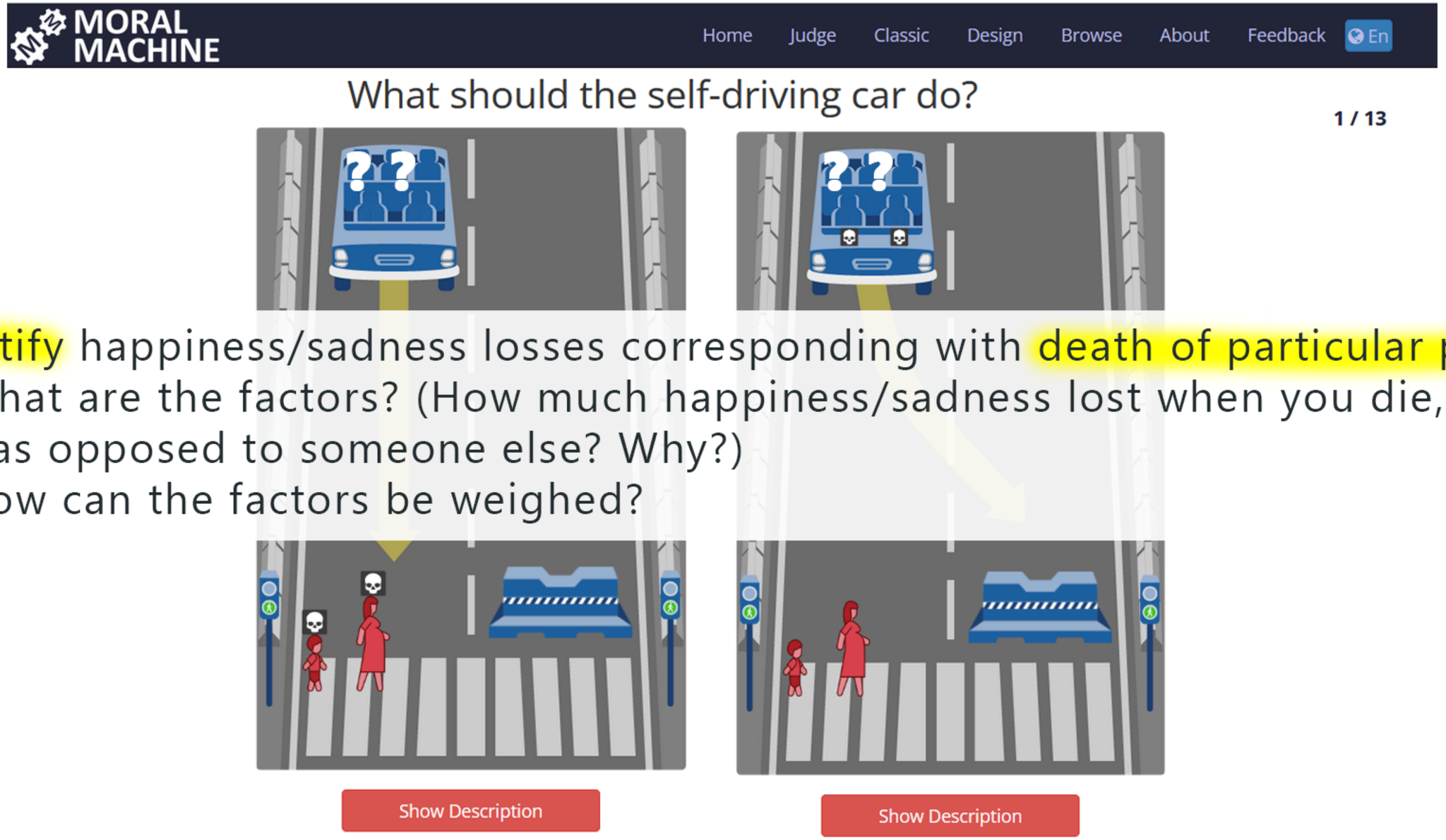


Coding and counting for social wellbeing: Driverless cars



https://www.moralmachine.net/

Coding and counting for social wellbeing: Driverless cars



Quantify happiness/sadness losses corresponding with death of particular person

What are the factors? (How much happiness/sadness lost when you die, as opposed to someone else? Why?)

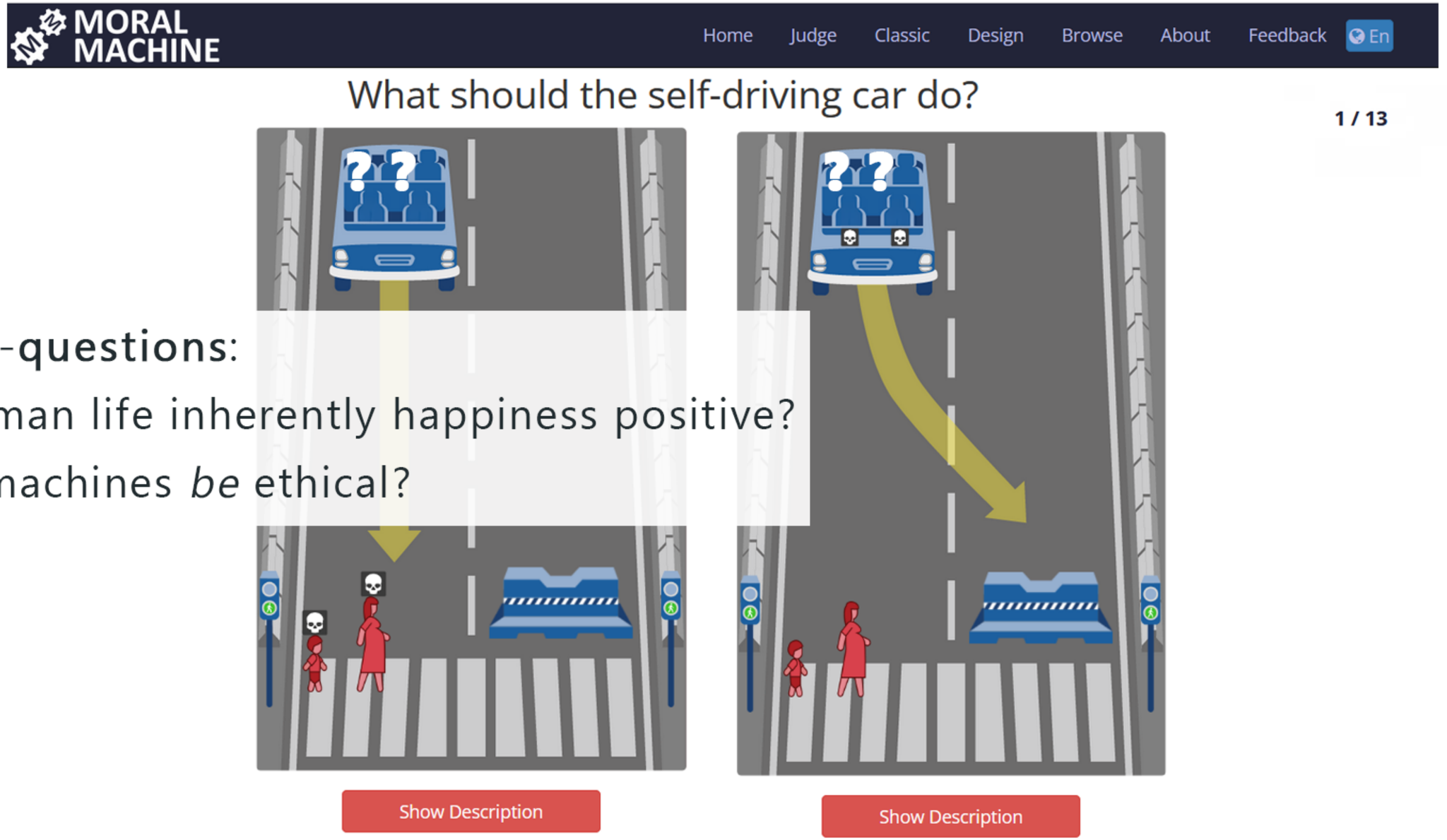
How can the factors be weighed?

Coding and counting for social wellbeing: Driverless cars

Can the decision mechanism be converted into ethics rules for driverless cars?

(1/age *100) + number of minor children + … = decision

Coding and counting for social wellbeing: Driverless cars



Meta-questions:

Is human life inherently happiness positive?

Can machines *be* ethical?

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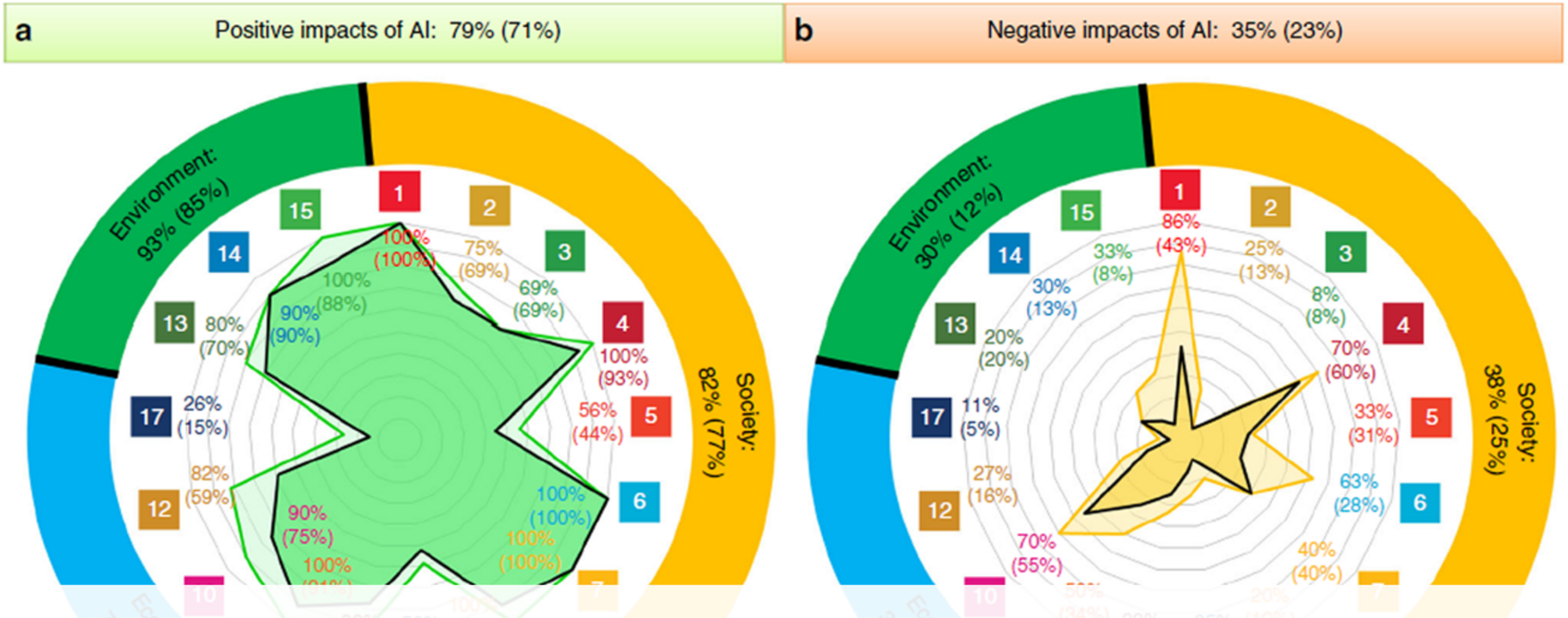
Social wellbeing practical approximation: AI supporting UN SDGs

Socially defined social goals with ***high numerical penetration***

Social wellbeing practical approximation: AI supporting UN SDGs



"Duality reflected in target 1.1, as AI can help to identify areas of poverty and foster international action using satellite images.

On the other hand, it may also lead to additional qualification requirements for any job, consequently increasing the inherent inequalities and acting as an inhibitor towards the achievement of this target."

The role of artificial intelligence in achieving the Sustainable Development Goals, Vinuesa et al.

*https://ai-for-sdgs.academy/casebase

Social wellbeing practical approximation: AI supporting UN SDGs

Duality…

USE CASE - Face recognition systems for Domestic Cattle

- Facial recognition of cows in dairy units can individually monitor all aspects of behavior in a group, as well as body condition score and feeding.
- When it comes to lameness, measuring the arch in the cows' back could give an early sign of the problem.

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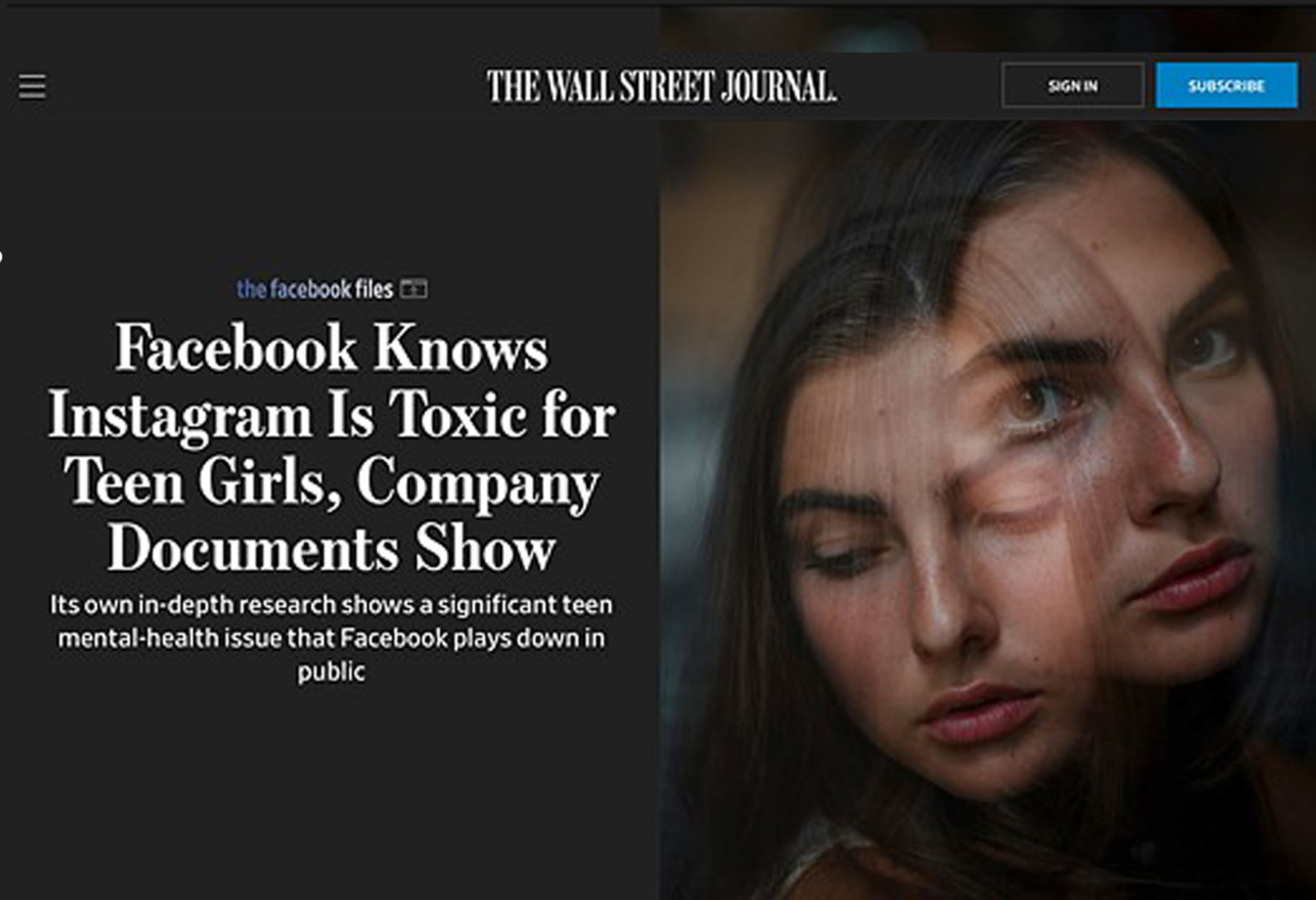
Practical + theoretical objections to social wellbeing ethics

Is the “toxicity” calculable?

How does it compare against individual rights (Autonomy? Dignity?)

Should Instagram be prohibited for teens?



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Case: AI, ESG, fintech: Social wellbeing enabled by AI *and profit...

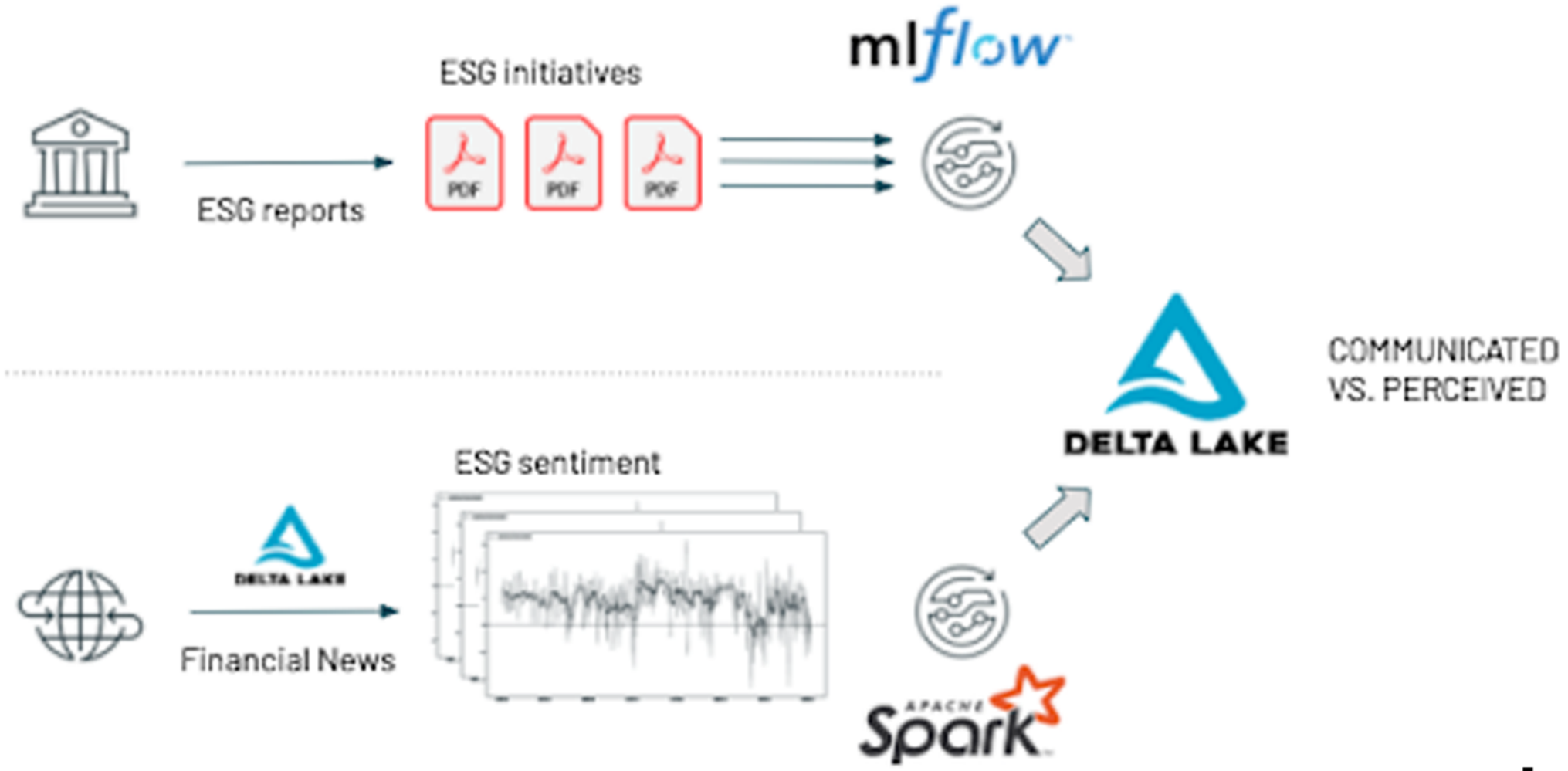
SDGs = ESG in finance

"High/favorable ESG Corporate Rating performance is generally positively related to valuation and profitability and negatively correlated with volatility"

"However, with no standard schema nor regulatory guidelines, communication in these PDF documents can be varied, making this approach a perfect candidate for the use of machine learning."

ESG investing by AI: find/organize nonfinancial data reflecting ESG performance of companies for profit

Case: AI, ESG, fintech: Social wellbeing enabled by AI *and profit...



databricks

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