



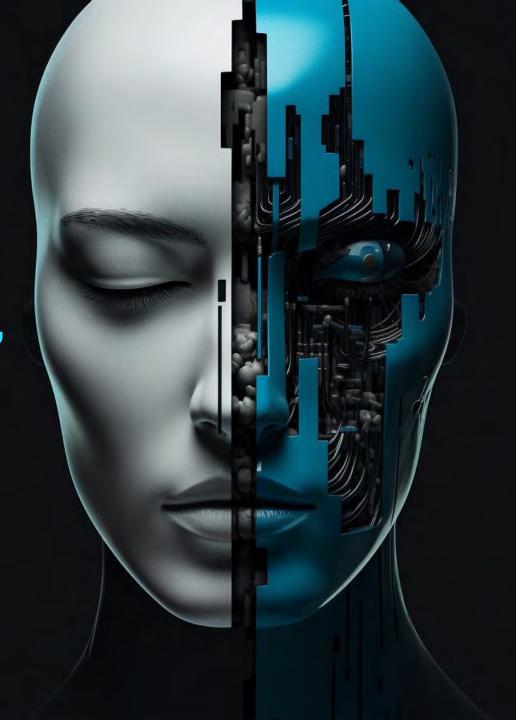
Luxembourg EU Summer School

"Artificial Intelligence and Ethics"

The importance of a human-centric approach

Rick Serrano

Tuesday 9th July 2024 Luxembourg







THANKS FOR THE INVITATION

Alfonso de la Fuente and his team

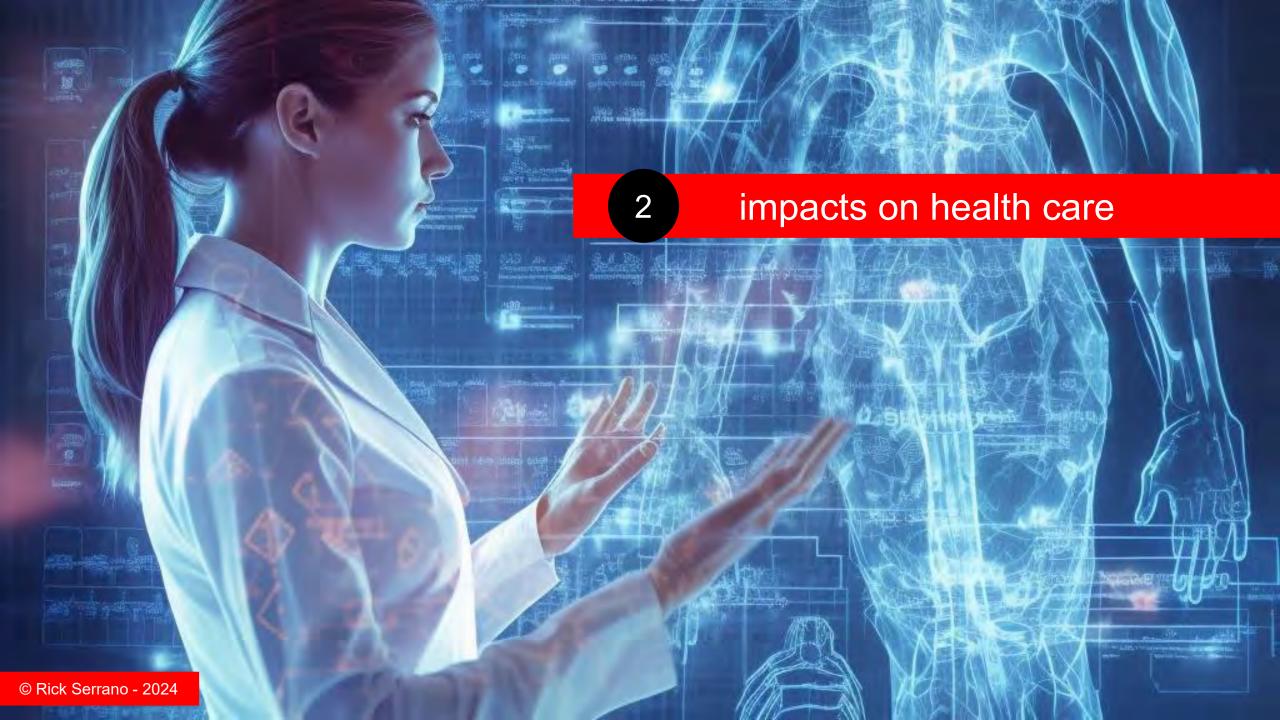








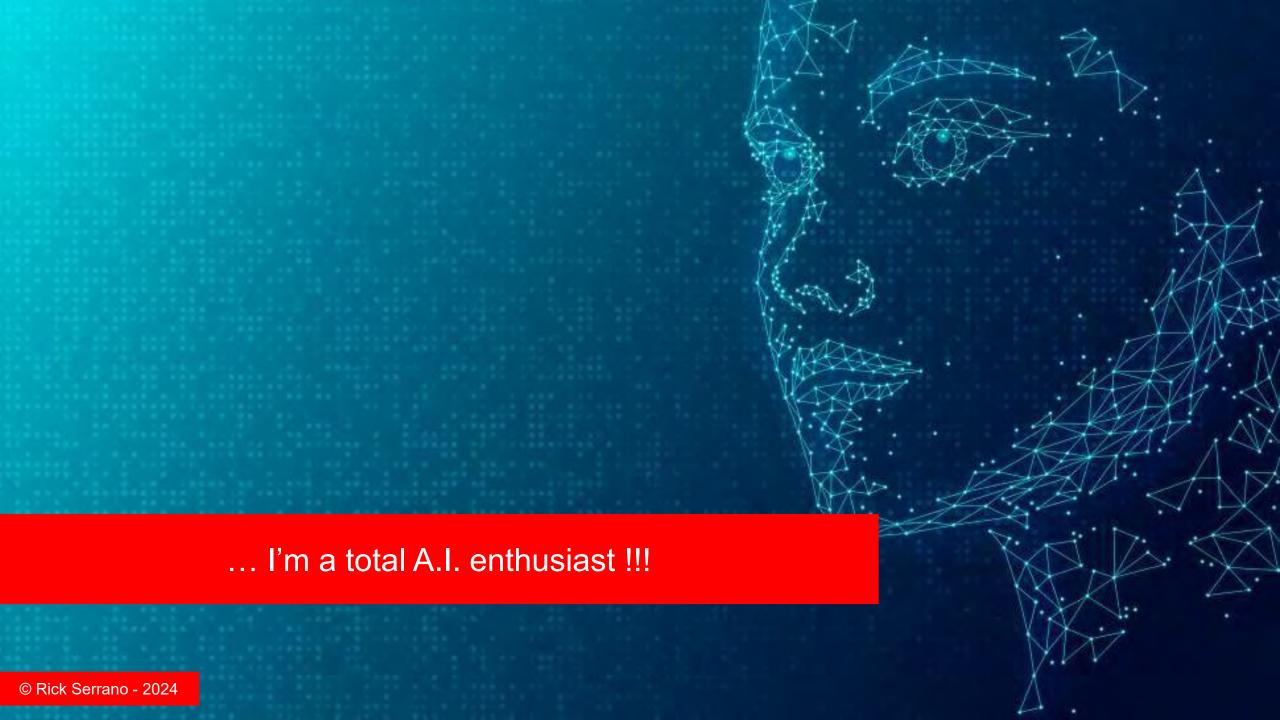














So, the positive side is undeniable....



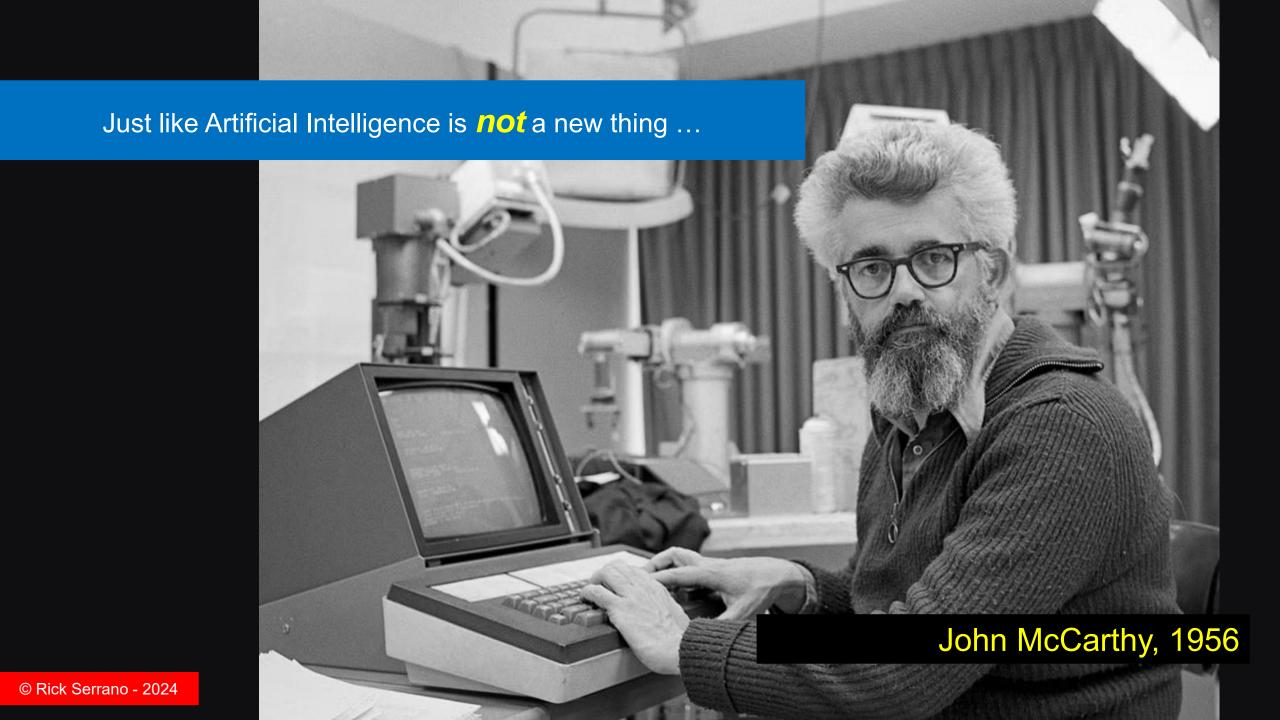
... but something worries us !!!



... that's why we are here today !!!

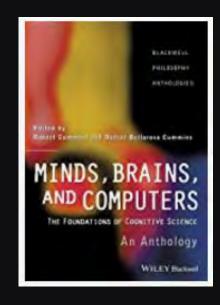
the ethical questions ...



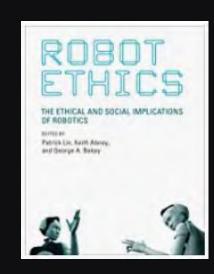




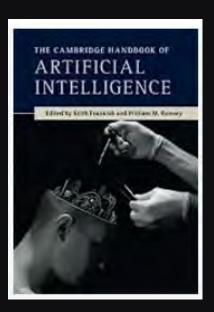
The ethical concerns regarding A.I. are **not** new



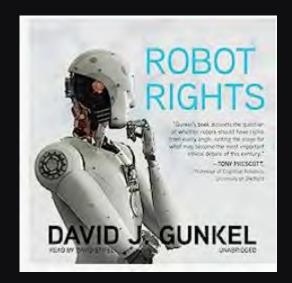
"Minds, Brains, and Computers: An Historical Introduction to the Foundations of Cognitive Science" by Robert Cummins and Georg Kreisel (1982)



"Robot Ethics: The Ethical and Social Implications of Robotics" by Patrick Lin, George A. Bekey, and Keith Abney (2011)



"The Cambridge Handbook of Artificial Intelligence" edited by Keith Frankish and William M. Ramsey (2014)



"Robot Rights" by David J. Gunkel (2018)



The ethical concerns regarding A.I. are **not** new ...



"Artificial Intelligence – Ethical Implications" Rick Serrano (2021)



"Who decides here? Artificial Intelligence and You" Rick Serrano (2021)



What were the major ethical concerns at that point...?





responsibility





$$\frac{\sin x}{\sin x} = 1$$
... but "responsibility" has several derivatives
$$\int_{x} \sin x = 1$$

$$\int_{x} \sin x = 1$$

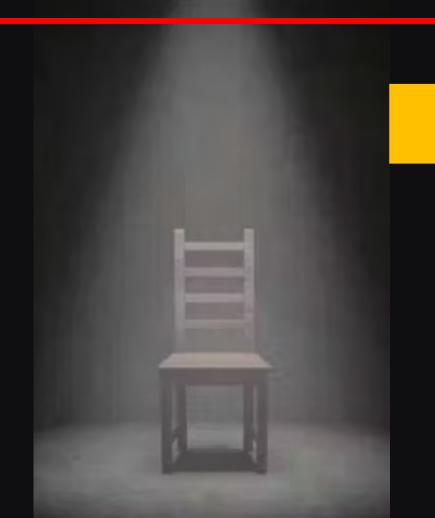
$$\int_{x} \sin x = 1$$

$$\int_{x} \cos x$$



responsibility





consciousness?



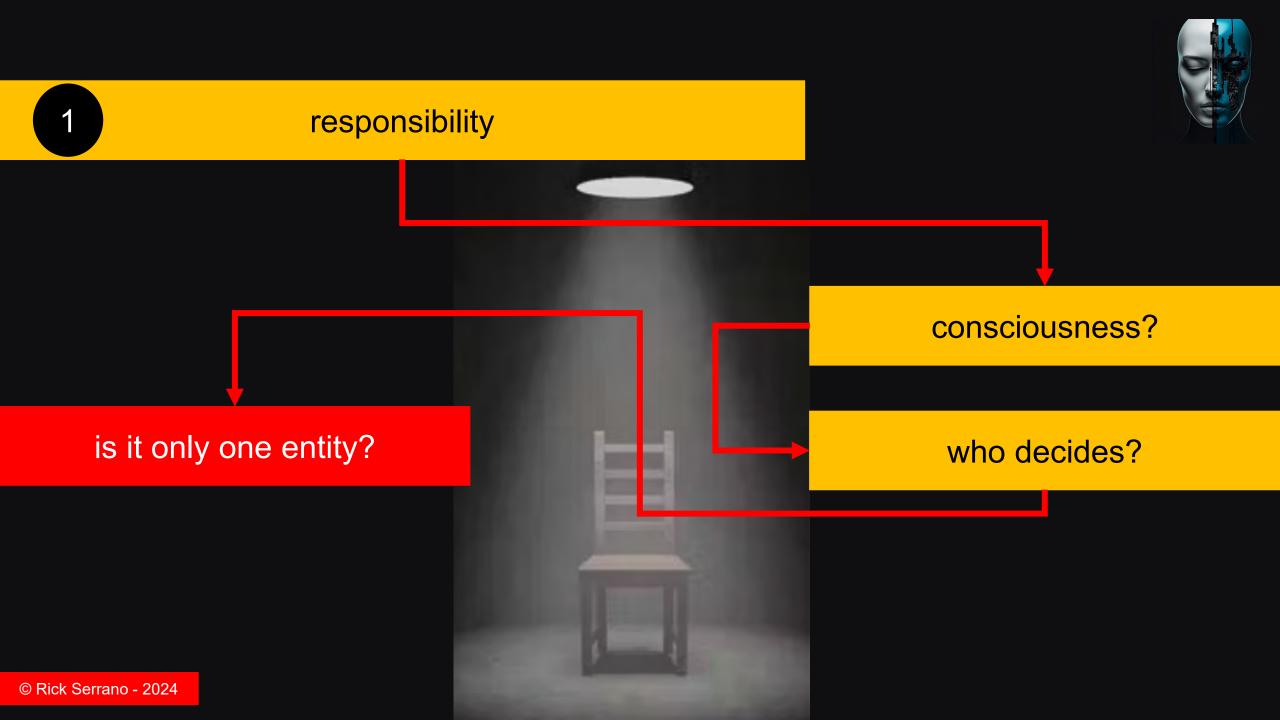
responsibility

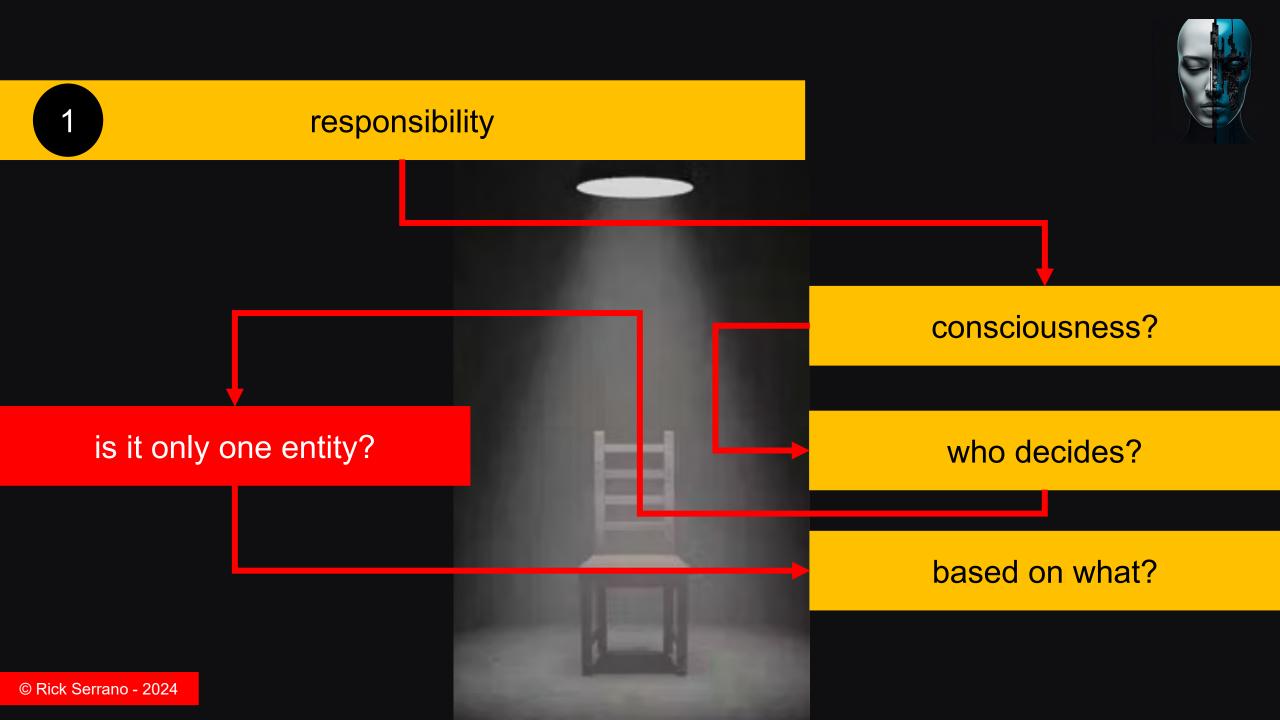


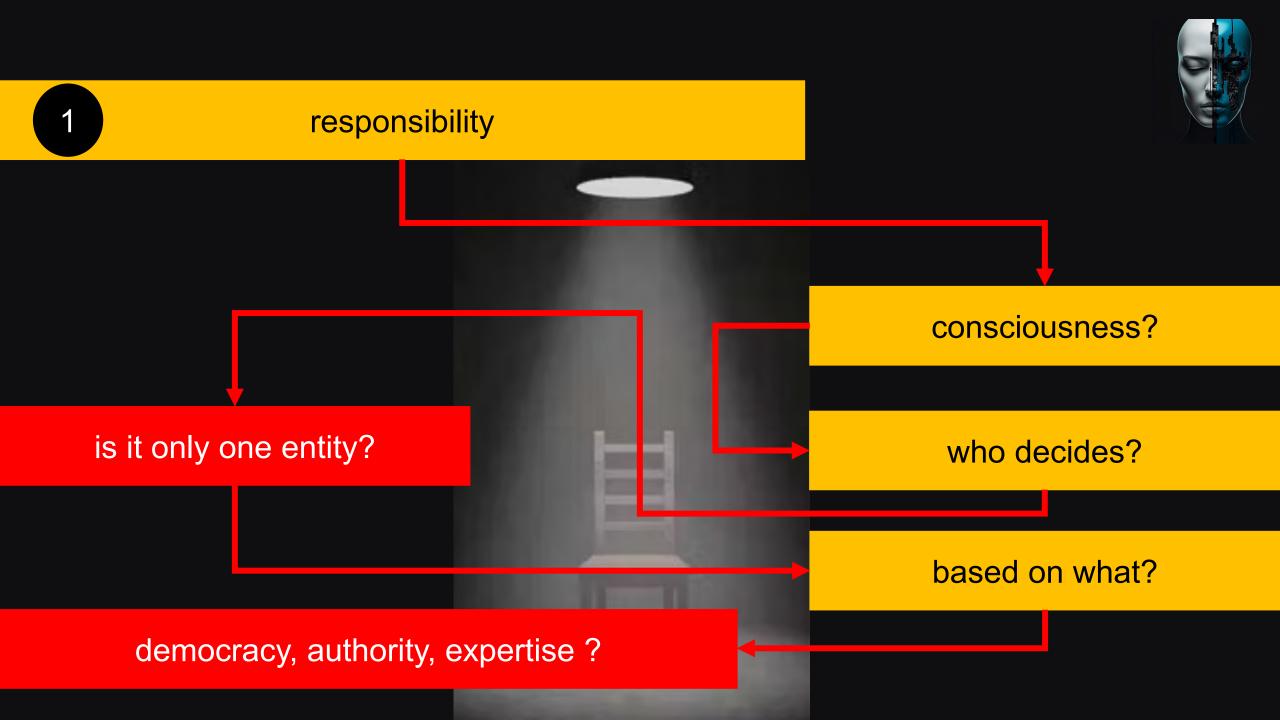


consciousness?

who decides?





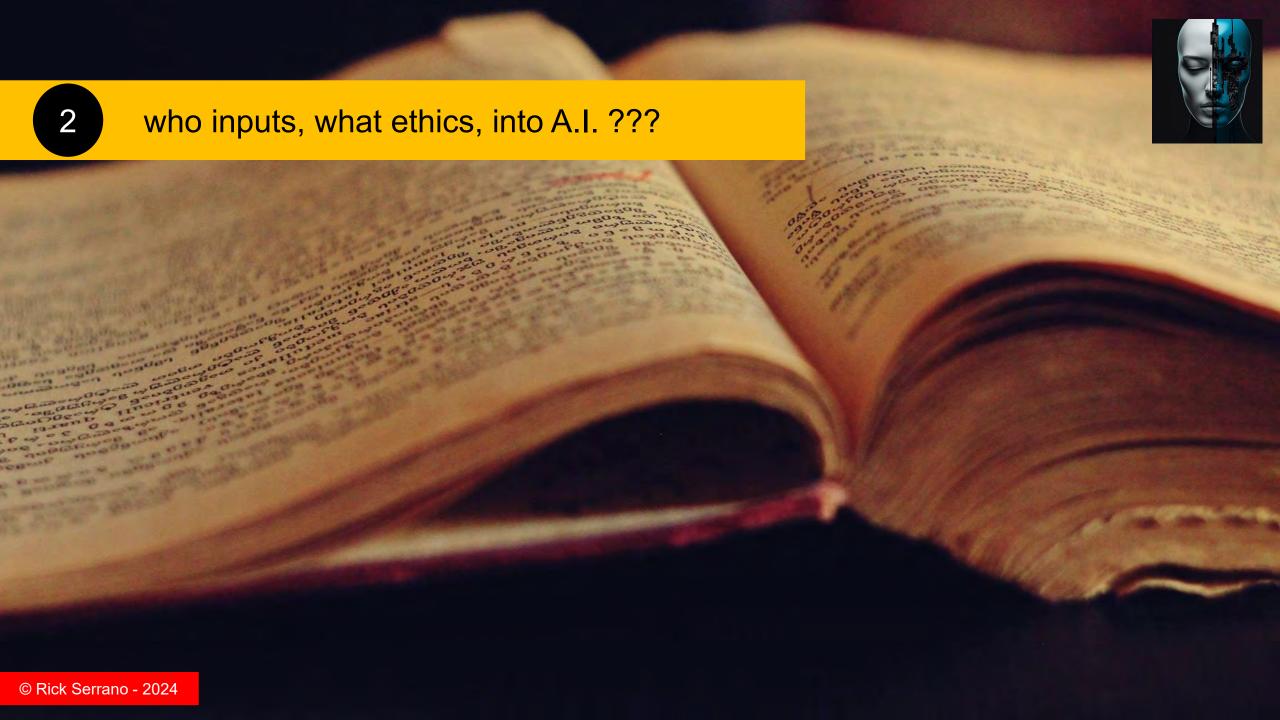


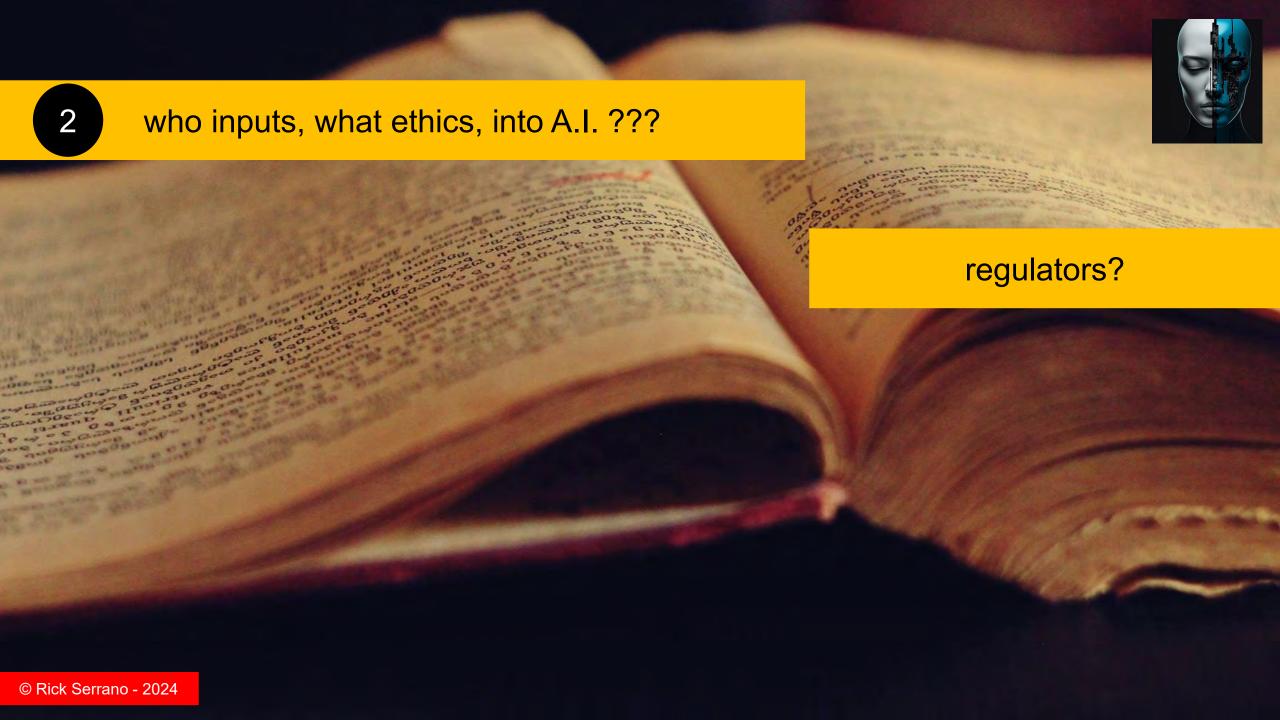


responsibility <u>was</u> an <u>is</u> a top issue



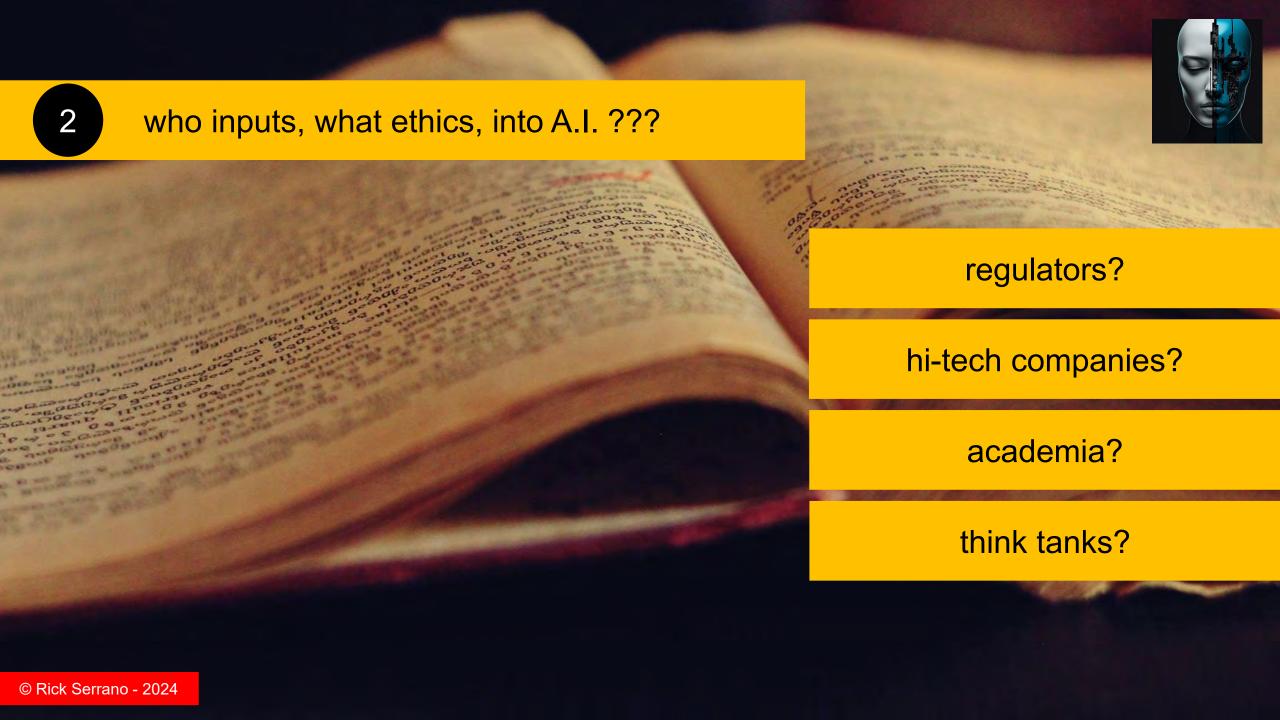


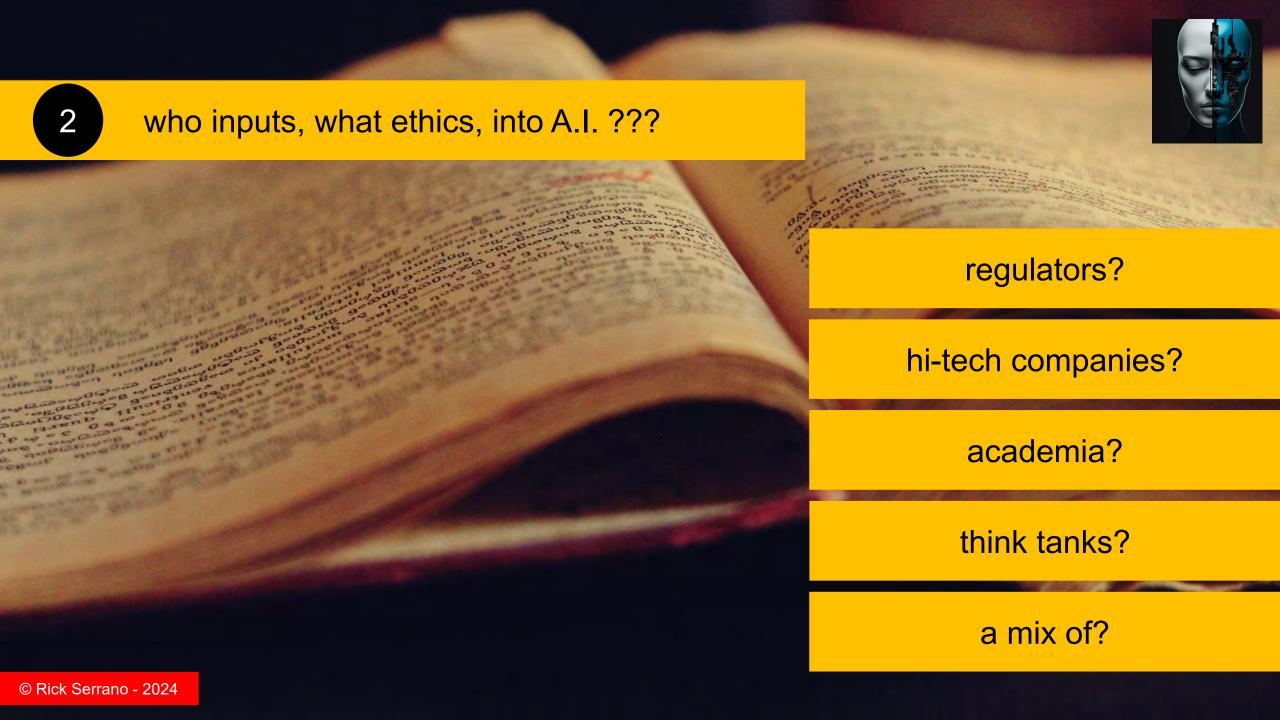
















the issue of transparency ...

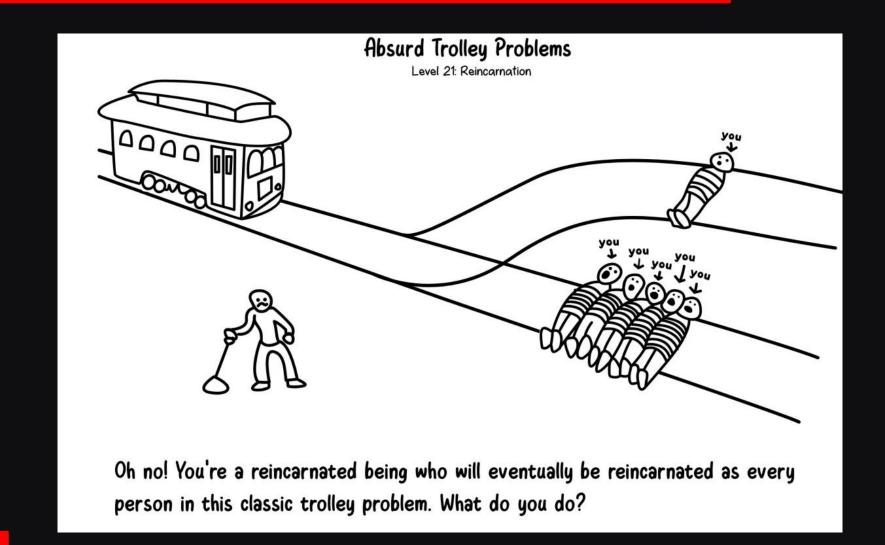








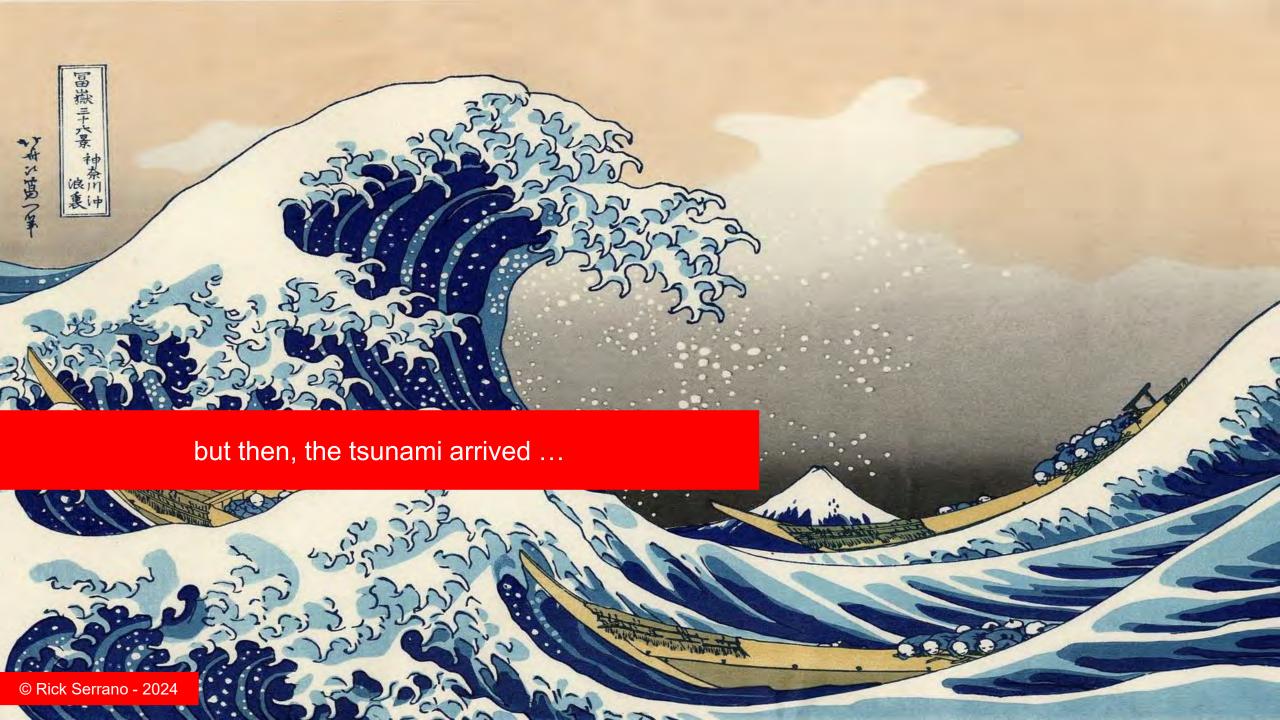




So, the ethical questions have been here for some time



yes, sure !!! but ... !!!



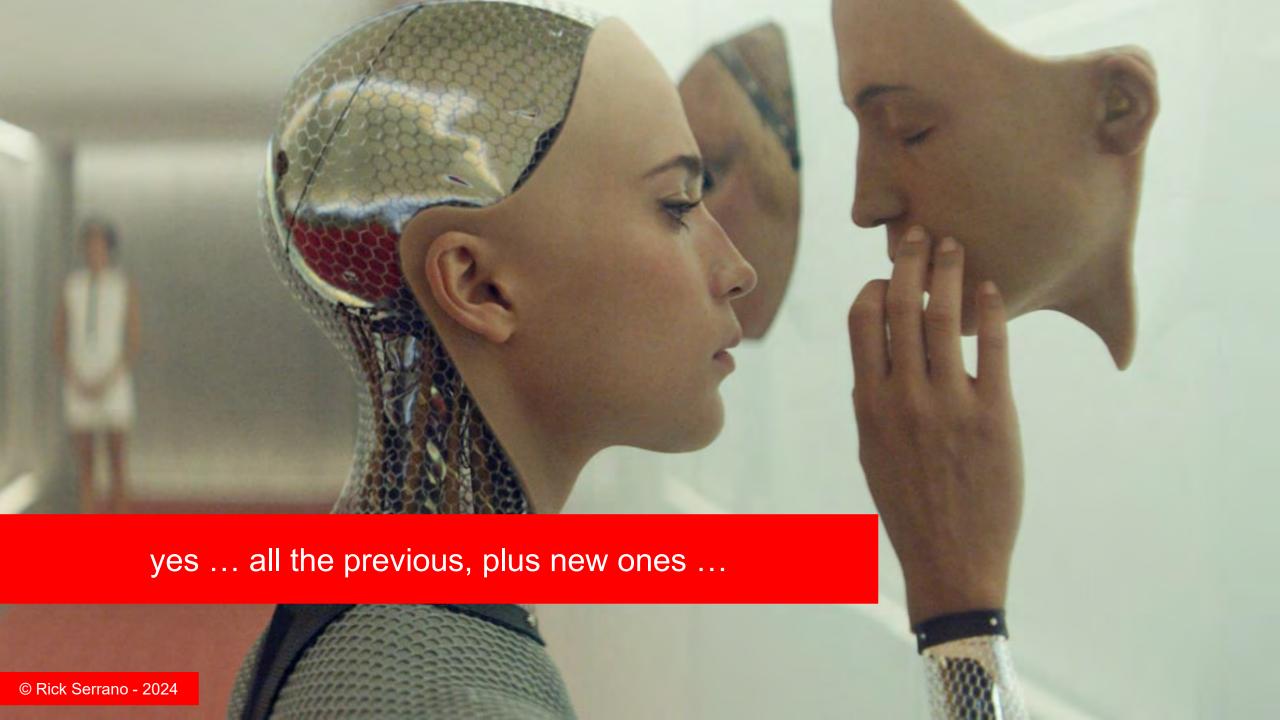


30th November 2022



ChatGPT: Optimizing Language Models We've trained a model called ChatGPT which interacts in a Conversational way. The dialogue format makes it possible for for Dialogue or is a sihling model to Instruction I which is So, do we have **new** ethical questions....???







identity – are you really you…?

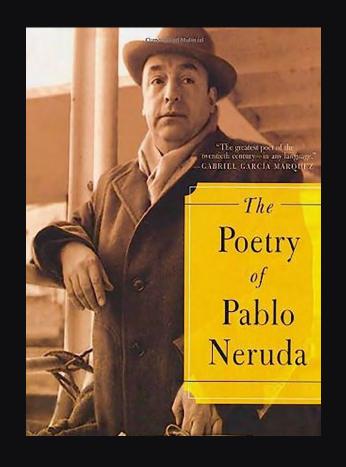


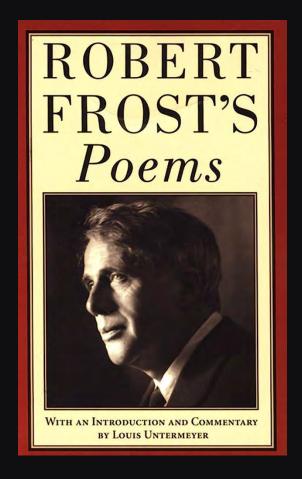




identity – are you really you…?



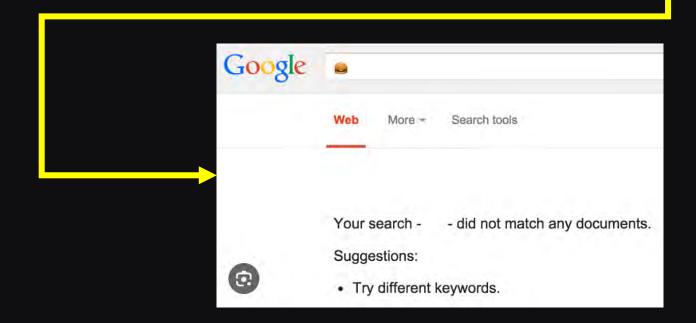






... how do you determine "original work"...?

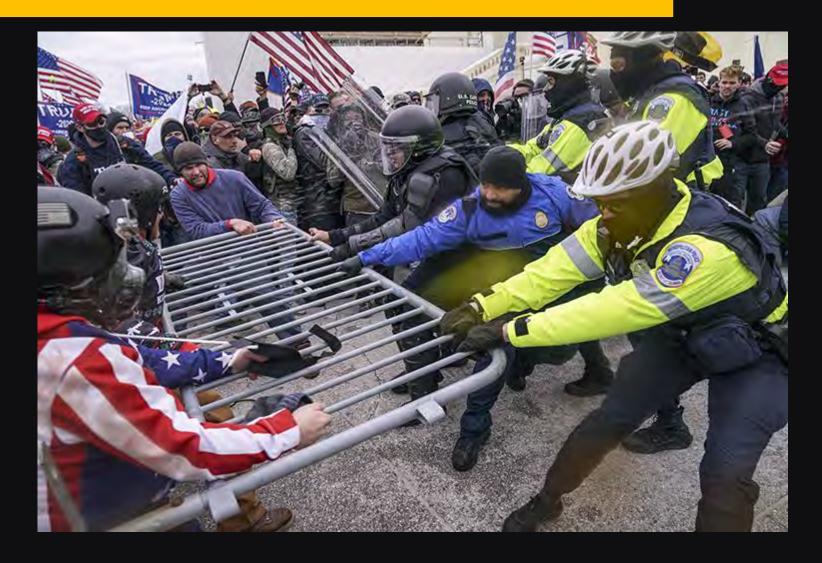
you can create new non-existing things like someone else...!





authenticity – can we tell if this is fake?





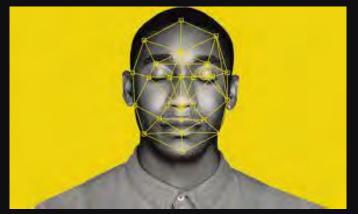


privacy ... your data everywhere







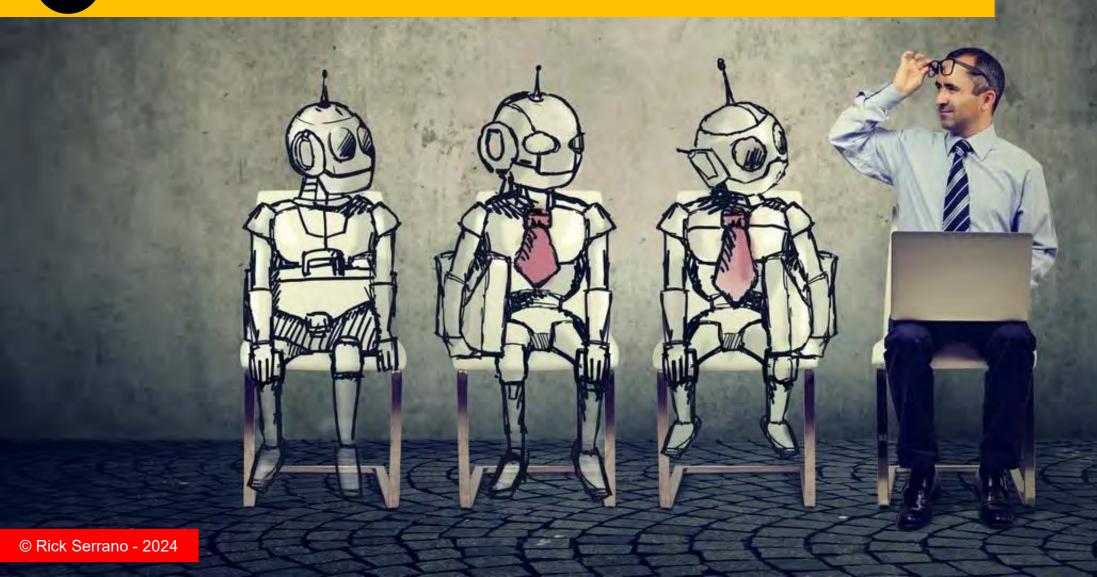








impact on jobs – dehumanization of processes













14 million jobs will be lost worldwide on balance over the next 5 years

(69 million created and 83 million destroyed)

Source: https://www.lemonde.fr/en/economy/article/2023/05/03/world-economic-forum



what matters is **not** the net balance !!!





it's the 83 million destroyed ...!!!



each one is a human being !!!





... nearly a quarter of employees will change jobs, mainly due to the advent of new technologies

Source: https://www.lemonde.fr/en/economy/article/2023/05/03/world-economic-forum







... the 90% versus 91% paradox

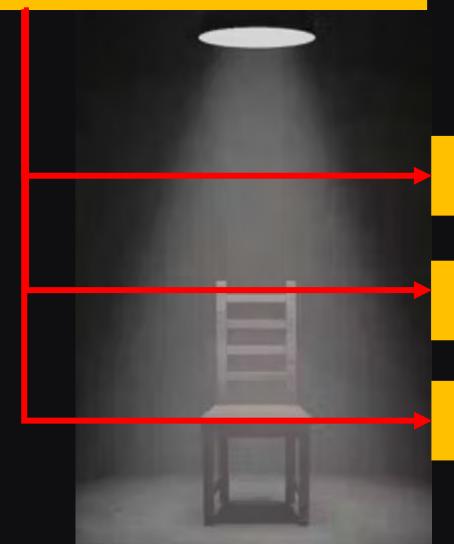








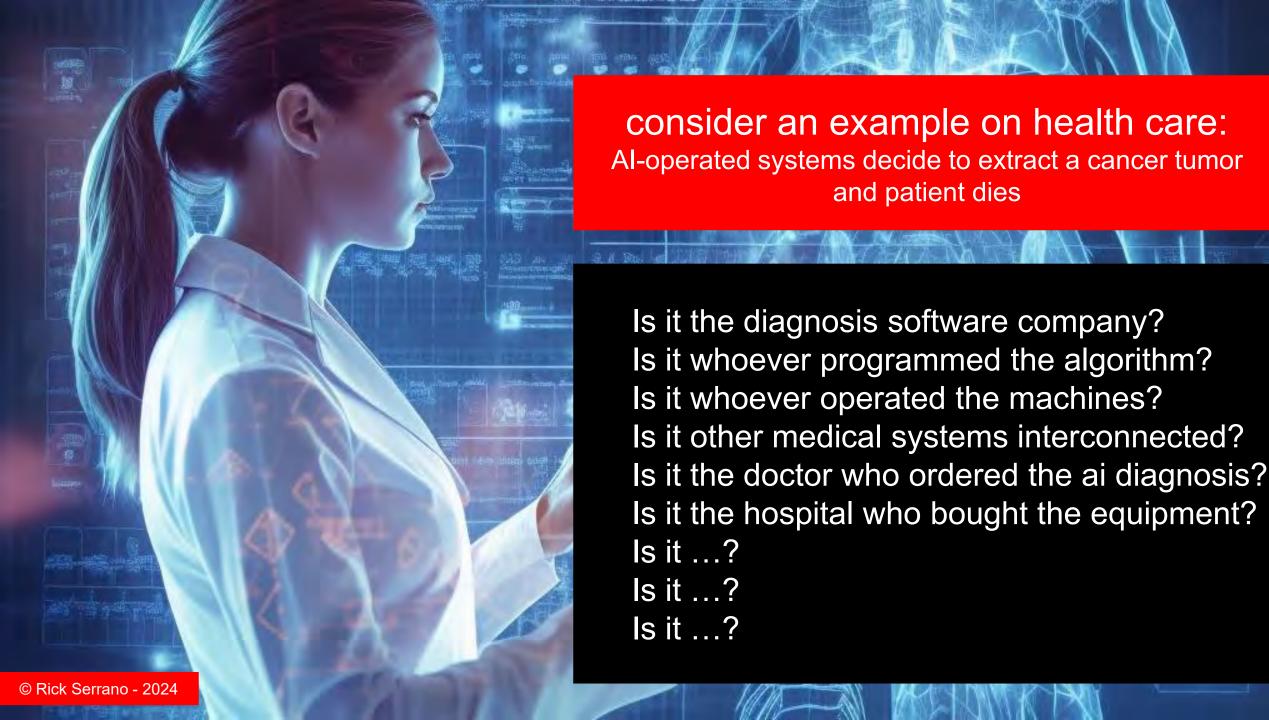




consciousness?

who decides?

based on what?



consider an example on politics:

Al-operated defense systems order a bombing, many civilians get killed; enemy barely affected

Is it the ai-strategic software company?
Is it whoever programmed the algorithm?
Is it whoever operated the weapons?
Is it other defense systems interconnected?
Is it the general who ordered the ai attack?
Is it the army who bought the equipment?

Is it ...?

Is it ...?

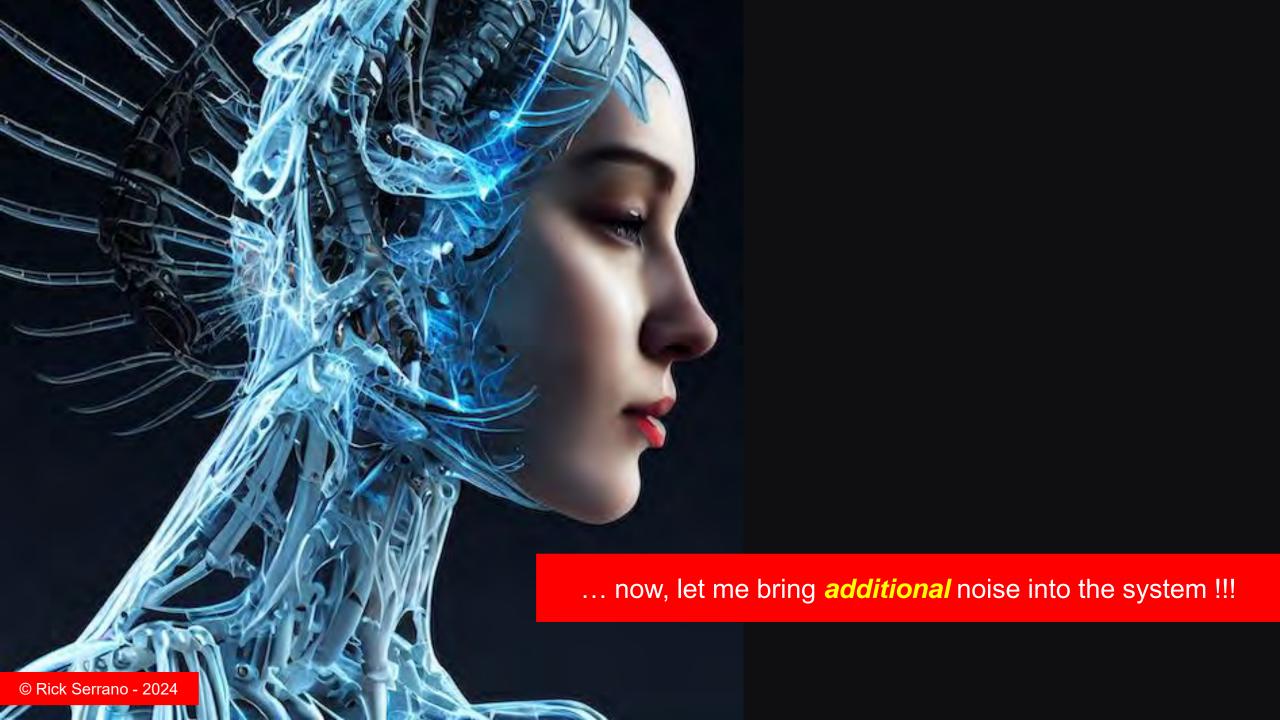
Is it ...?













... allow me to be provocative...

... the definition of what it means to be human...?

... what is indeed "consciousness"...?



"the state of understanding and realizing something"



"the state of being able to use your senses and mental powers to understand what is happening"

... is A.I. truly evolving out of control...?

... is it *really* impossible to program ethics?

... we used to think some things were impossible, remember...?

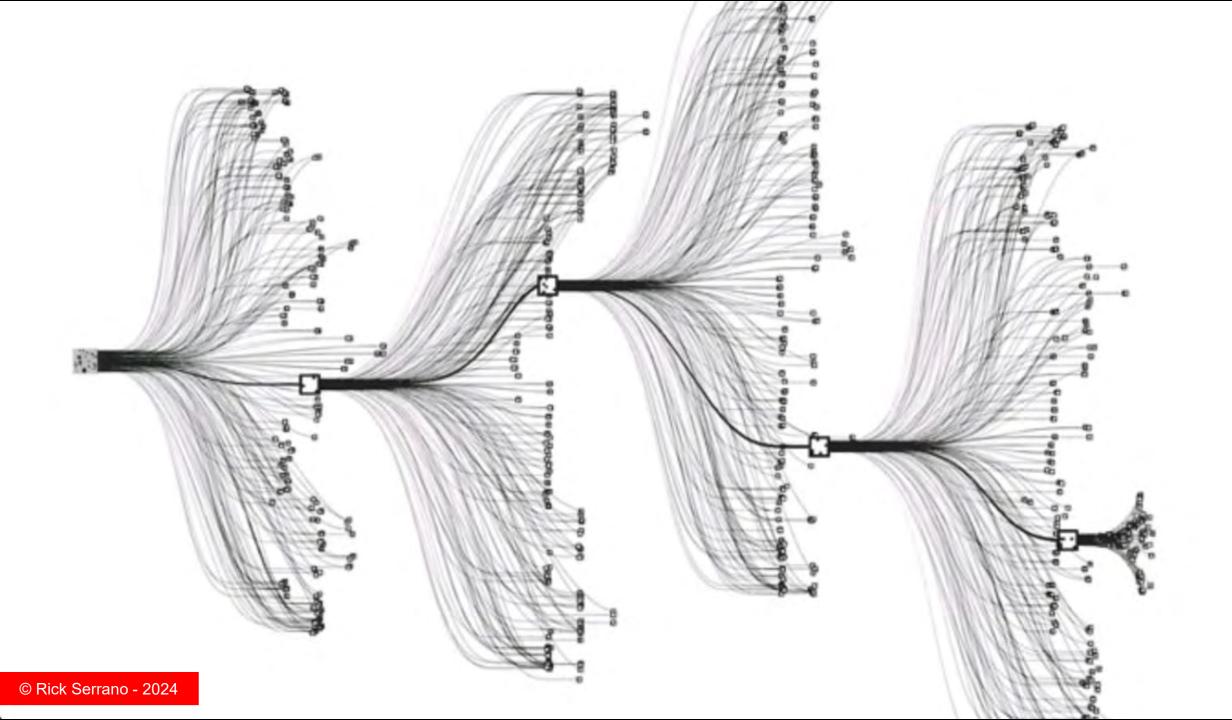








... and it happened and how!!!



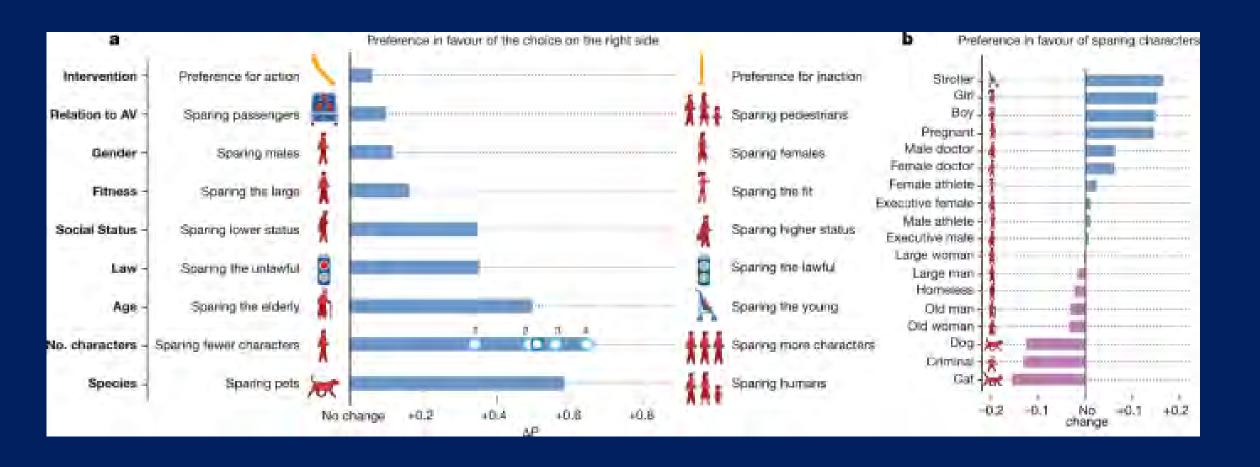


... (arguably) ethics can (and will) be programmed ...

... indeed, it's already happening ...



https://www.moralmachine.net/



https://www.moralmachine.net/

... do we *really* need to fully understand the machine?





Blu-ray

Single Layer 4.7 GB Dual Layer 8.5 GB

Resolution: 720x480

Capacity:

Single Layer 25 GB Dual Layer 50 GB

Resolution: 1920x1080

So, why are we so surprised when we don't understand something new...?



... so, the *ultimate* question is probably:

... is singularity completely ruled out?

... and the only honest answer is probably:

... we don't know!!!

... but beyond singularity (or not) ...

... there are plenty of fascinating aspects about A.I. to keep an eye on ...

... allow me 3 examples ...

1

There will be new legally-liable "subjects"



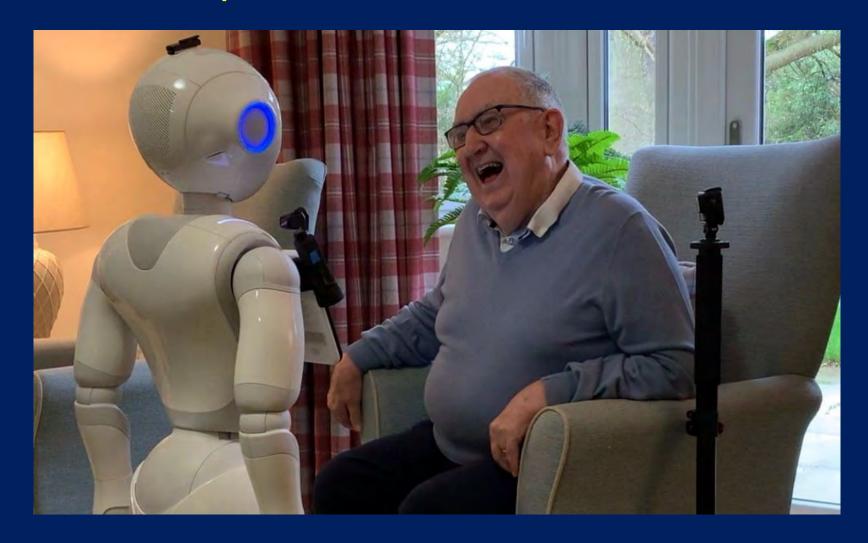
2

There will be new possibilities to do well ...



2

There will be new possibilities to do well ...







There will be new "human" relationships ... beyond what you are thinking ...



... take a deep breath !!!



First, what we should **not** do!!!



Do not panic – remember Y2K



Do not panic – remember Y2K

Do not prohibit it ... this *is* happening!

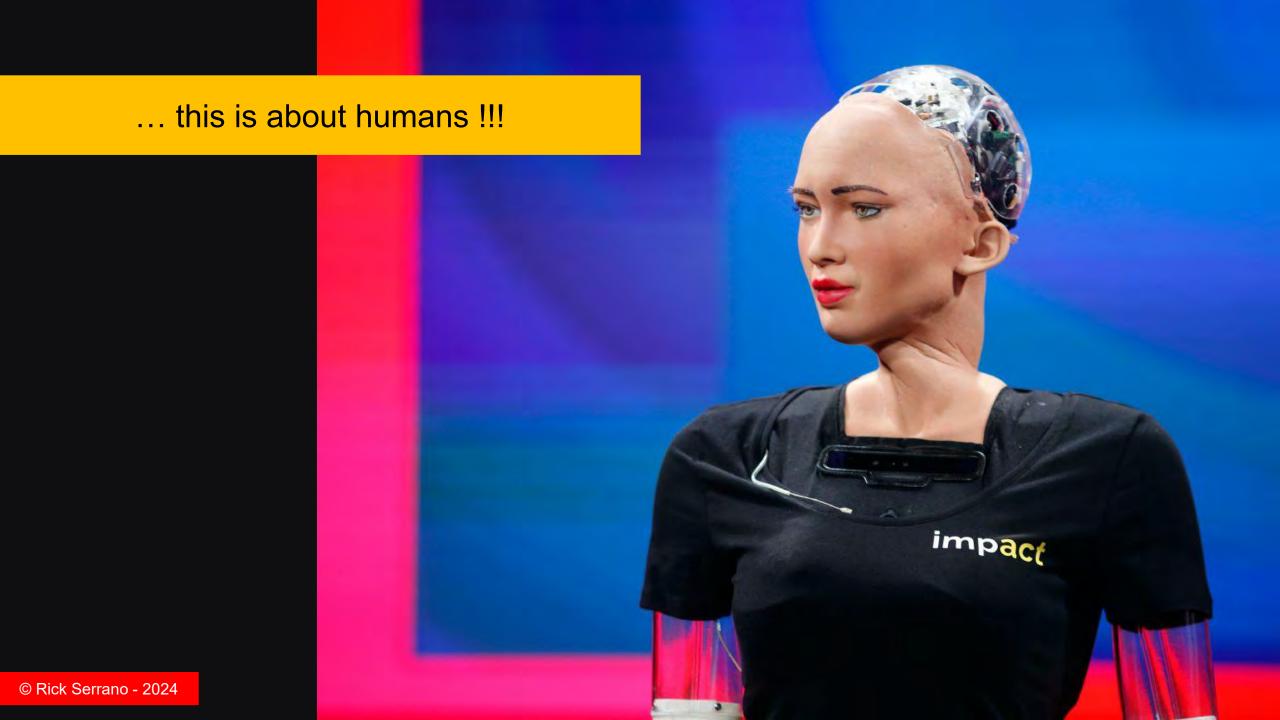


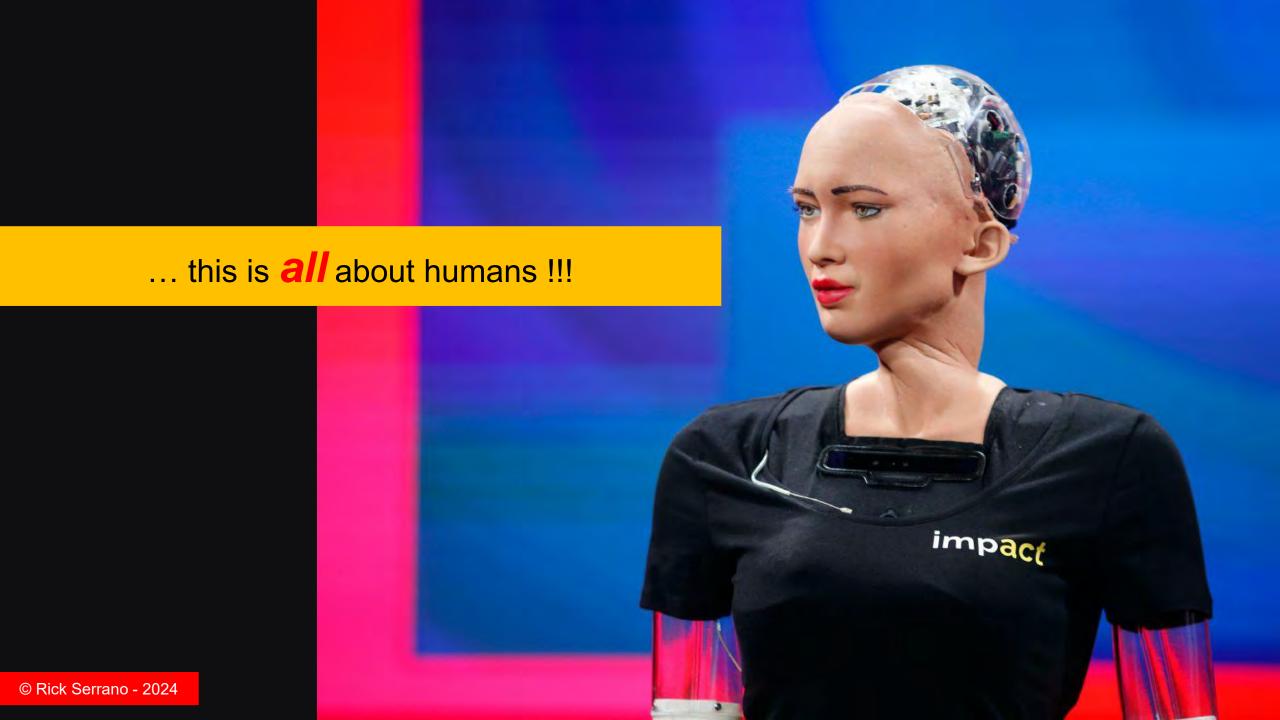
Do not panic – remember Y2K

Do not prohibit it ... this *is* happening!

Do not hyper-regulate it á la GDPR!







an ethical framework for A.I.

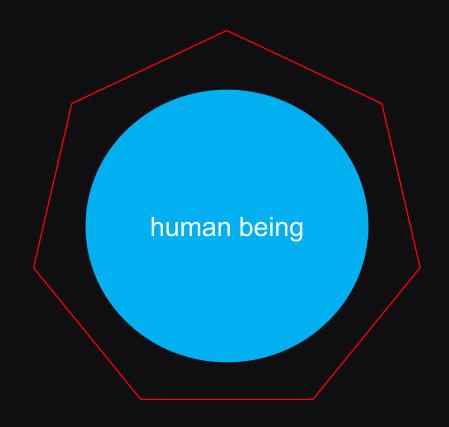


















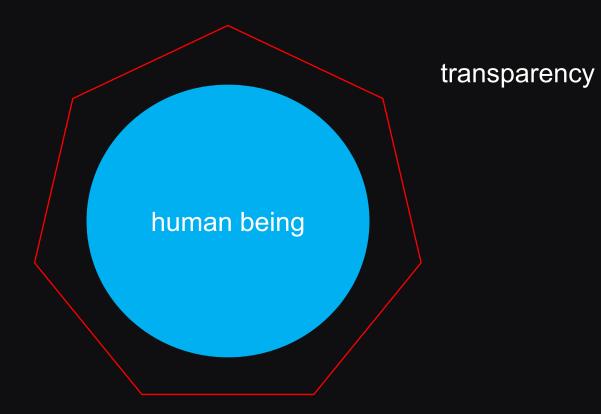
Have clarity about the exact point where decisions are made and make sure a human being is conscious of that spot

human being

consciousness

To the extent possible,
make sure that
someone has
consciousness of
ai-driven decisions
and of the potential
pain-points
of these decisions







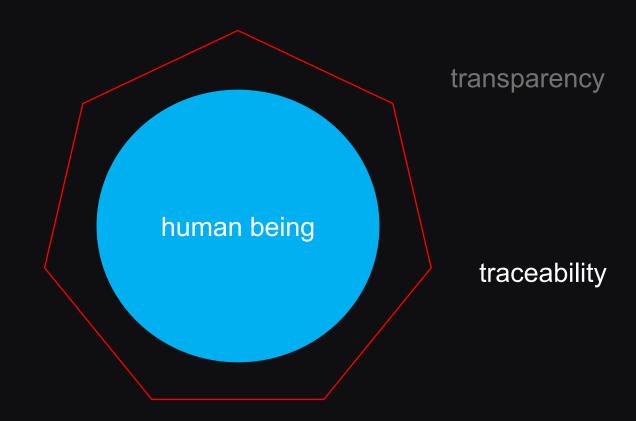
Make sure there is as much clarity as possible in the decision-making process

human being

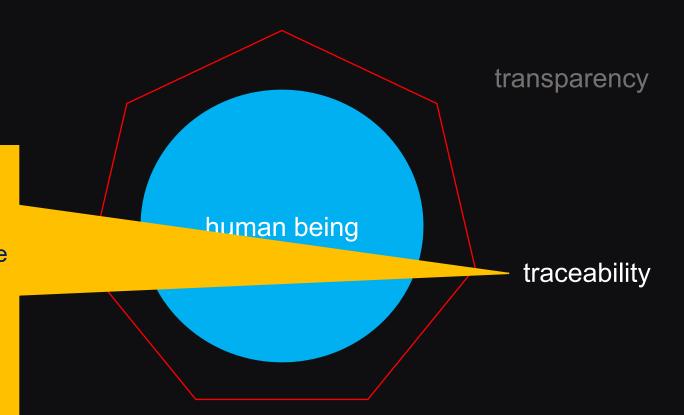
transparency

Make sure there is as much knowledge as possible on the algorithm-coding process and in the criteria built in those algorithms



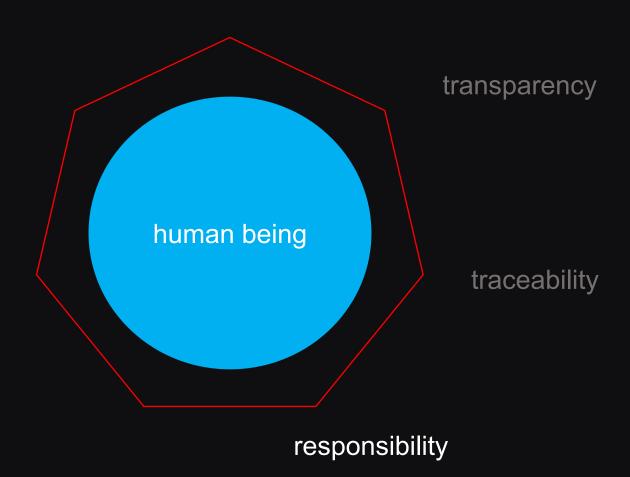






Make sure we can trace back to the ultimate decision-maker and to the ethical criteria built in the decision-maker "mental" process







Be clear who, or what, can be made accountable for aibased decisions and their consequences

consciousness transparency

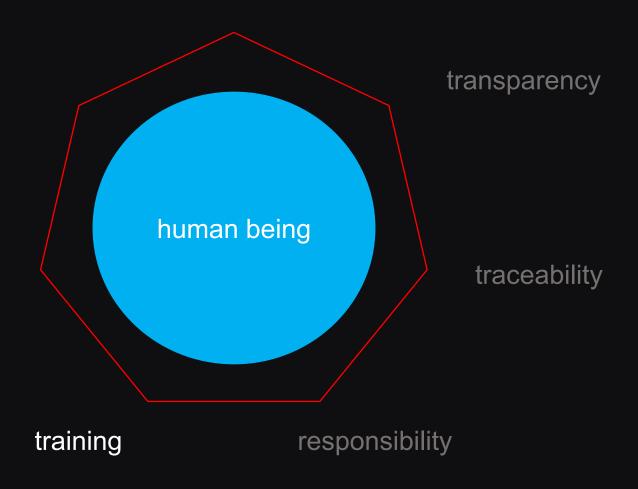
human being

tracea

responsibility

Disclaim openly who, or what, would bear the responsibility of the consequences of both: the decision-making itself, and the criteria fed to make that decision







Let's provide our people with the best possible training, tailor-made for their sector and their activity, to make them succeed in the Al revolution

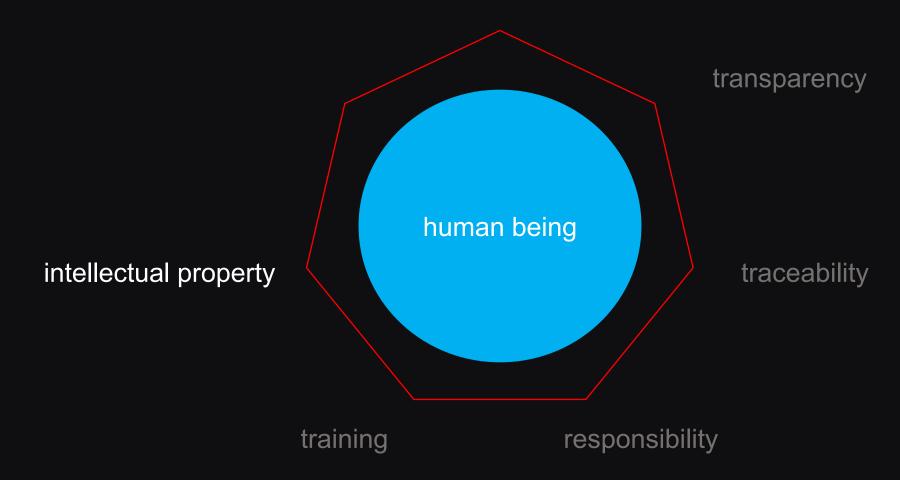
consciousness

training



This training must promote: creativity, innovation, and ethical behaviours

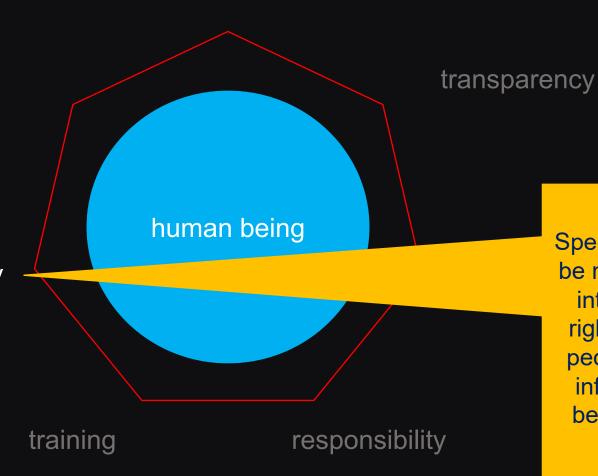






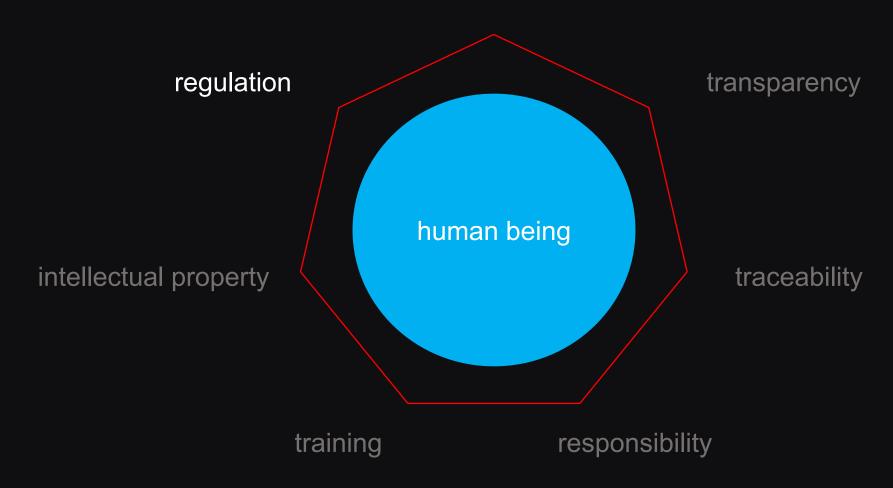
A fundamental element in our model

intellectual property



Specific emphasis must be made on respecting intellectual property rights and on training people how to handle information that has been generated with A.I.



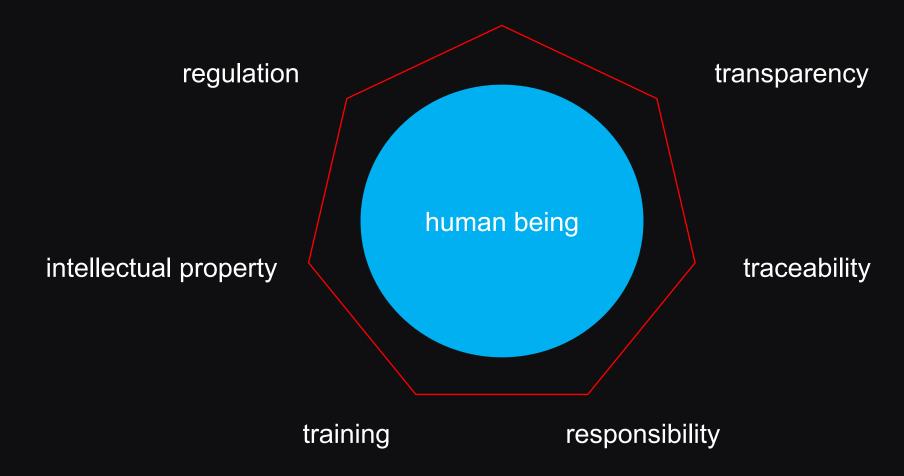
















what could companies and individuals do at this point ..?

	1	face rea	ality - awareness
--	---	----------	-------------------

2 provide the tools

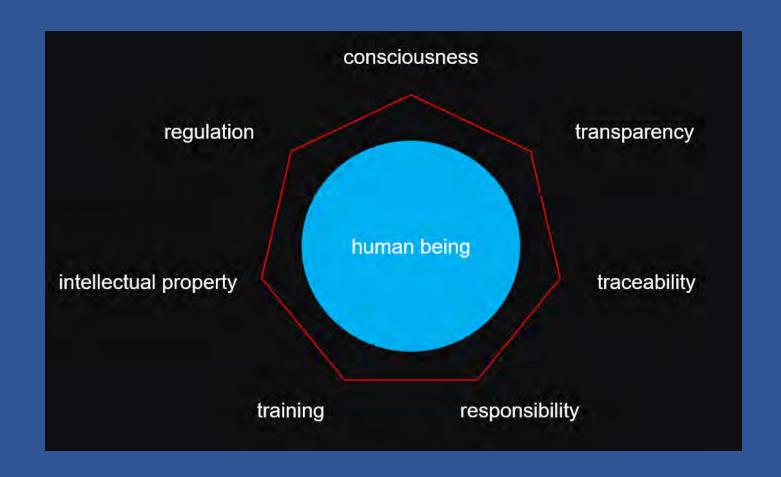
training for understanding

4 training for creativity

safety and security

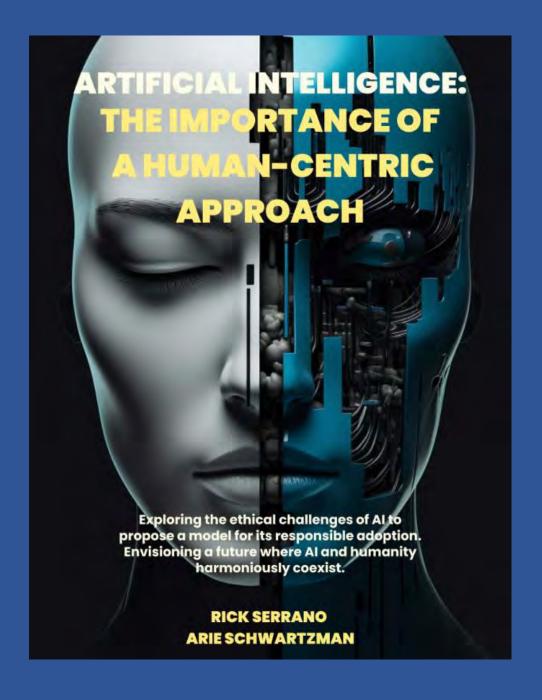


apply our framework



our book ...

amazonkindle



... thank you !!!







Rick Serrano

+352.691.233.155 www.rickserrano.com

serrano@geb.com

https://www.linkedin.com/in/rick-serrano-luxembourg/





"Glamour, Class, and Strength"

The world according to Coco Chanel

Presented by

Rick Serrano

Thursday 11th July 2024 at s. S. Auditorium Banque de ourg 14 Boulevard Royal, Jurg City

kunstverein.lux@gmail.com









The International Kunstverein Luxembourg is pleased to invite you to its next apéro-conference

"Trapped in Myself"

revisiting the drama of existence with Franz Kafka

Presented by

Rick Serrano

Thursday 12th September 2024 at 19:00 hrs. Auditorium Banque de Luxembourg 14 Boulevard Royal, Luxembourg City

R.S.V.P. indispensable kunstverein.lux@gmail.com





Luxembourg EU Summer School

"Artificial Intelligence and Ethics"

The importance of a human-centric approach

Rick Serrano

Tuesday 9th July 2024 Luxembourg

