

Artificial Intelligence and Human Rights

Ai movement focus

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Presentation Outline

“Science is a powerful tool. How it is used depends on the man, not the tool”

Albert Einstein

1
**Impact of AI on
human rights**

2
**Ai Movement contribution
to SDGs in Africa**

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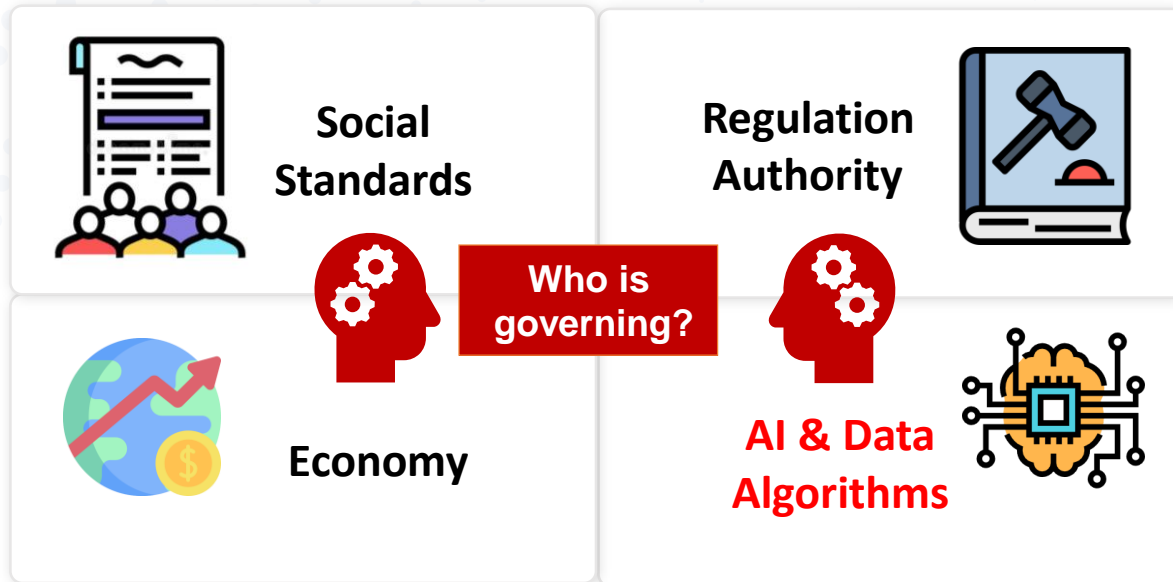
AI's impact on human rights and dignity



AI's impact on human rights and dignity

ALGORITHMIC SUBORDINATION

We go from a system that decides on its own to a system that decides on its own and on your behalf



Algorithmic subordination
Authority sharing in favor of the machine
(cf. LOA versus autonomy in aerospace)

Examples

- Field choice affects high school graduates
- A drone deciding to launch a missile
- Autonomous car runs into a pedestrian
- A recommendation system grants credits
- Airline ticket price changes itself online
- The car that refuses to start while the belt is unbuckled

Less than **0.05%** of the world's population can code or build algorithms.
To whom do we **entrust** this governance?

AI's impact on human rights and dignity

MANIPULATION AND NUDGES

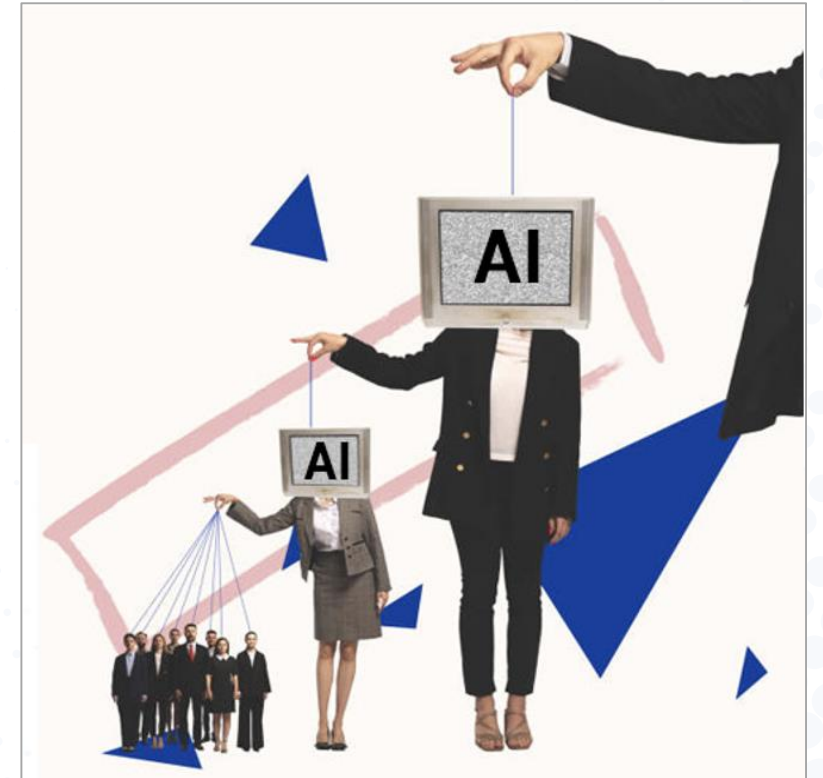


Behavioral science concept derived from industrial design practices ("architecture of choice")

- indirect suggestions can, without force, influence the motivations, incentives, and decision-making of groups and individuals at least as effectively if not more effectively than direct instruction, legislation, or enforcement.

Politicians (such as David Cameron and Barack Obama) have **used nudges to push citizens to make the "right decisions"** .

- to fight against obesity, promote recycling, regulate energy consumption, etc.

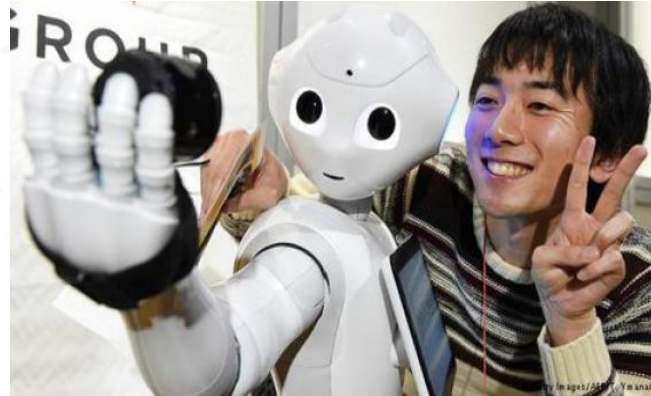


AI's impact on human rights and dignity

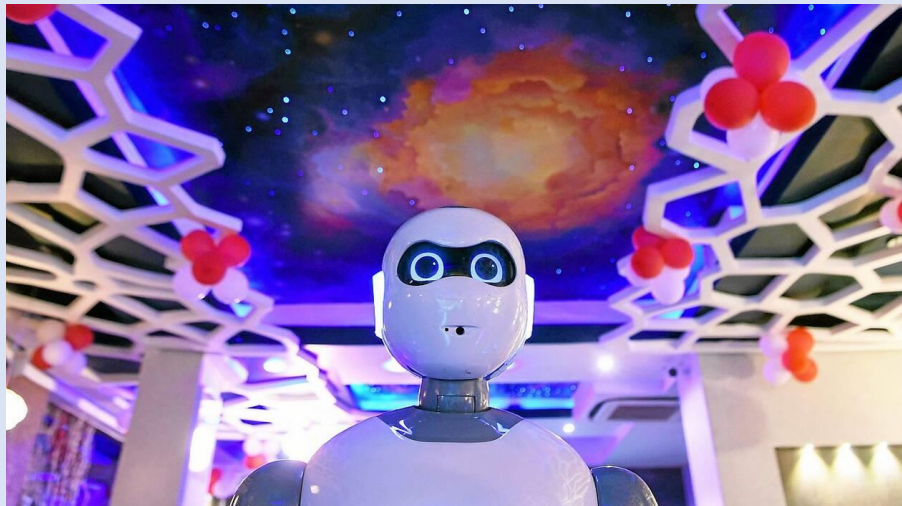
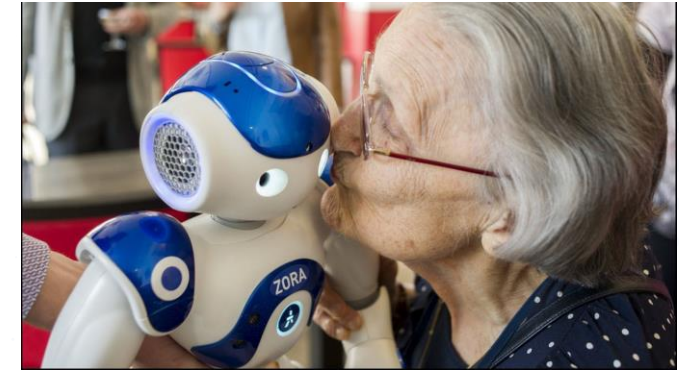
MANIPULATION AND NUDGES



Empathic robots that look like children are irresistible !



What is the place of the robot in a household?



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Is empathy with robots a danger to human communication?

The German experience with the robot that or who (?) said: "No, No, no, no, no, Please don't go away! I'm afraid it's never going to be daylight again "

After interaction with the robot, **13 out of 43** participants in the experiment were sensitive to the robot's request and could not turn off the robot !

AI's impact on human rights and dignity

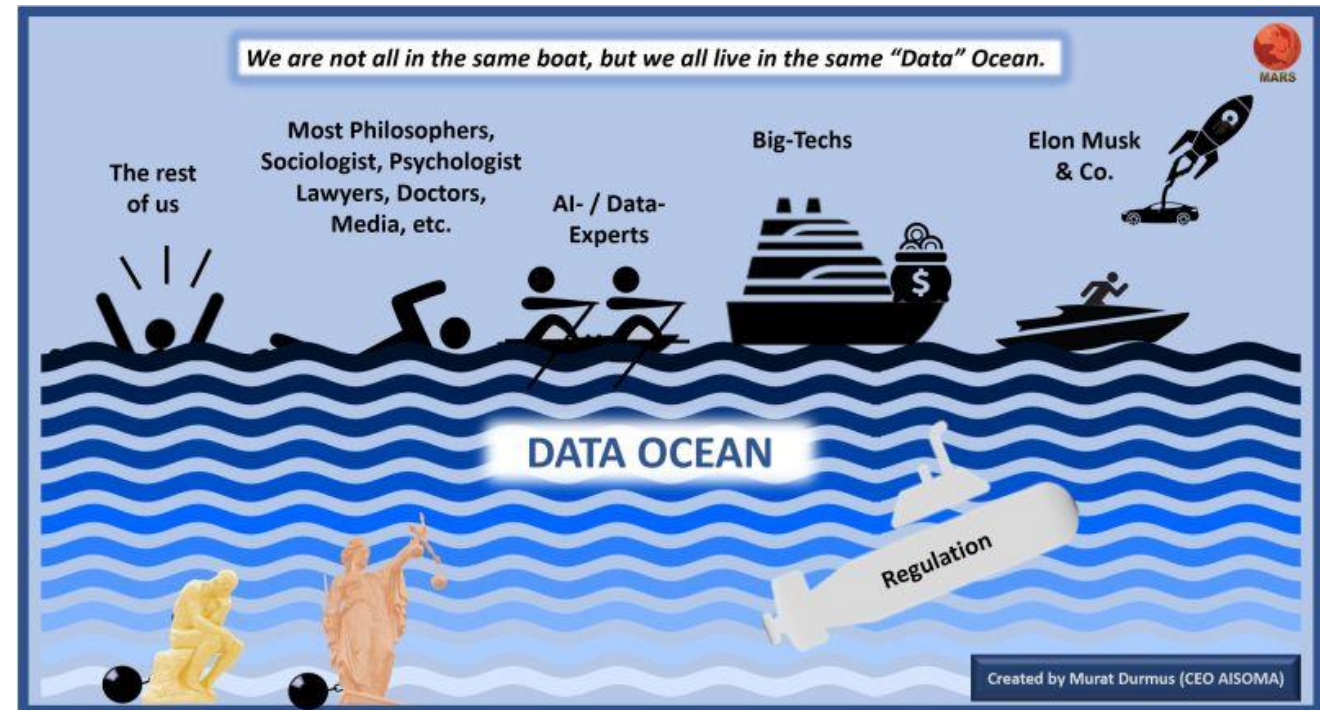
PRIVACY AND DATA PROTECTION



The more data algorithms have, the more they learn, the better they manipulate



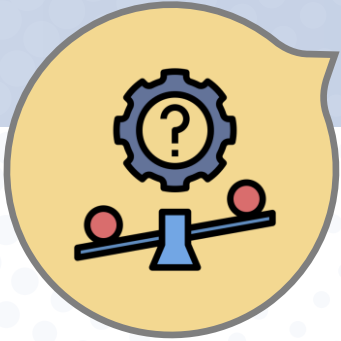
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Profiling, Cambridge Analytica

AI's impact on human rights and dignity

BIAS AND DISCRIMINATION / LANGUAGE INCLUSION



Cognitive Bias



- An algorithm is really just an "opinion built into the programs"
- A cognitive bias is a thinking mechanism that causes an alteration in judgment

Example: the word "woman" is systematically associated with terms such as "housekeeper", "nanny", "receptionist", "stylist", or "hairedresser", while the word "man" is associated with "chef", "philosopher", "captain", "financier".

Economic Bias



- Algorithms can be **biased**
- Algorithms targeting segments of the population (e.g. job offers targeting Men versus Women.)

Search engine manipulation:

The European Commission fined Google in 2017 €2.4 billion for favoring its own products in Google Shopping search results at the expense of its competitors.

Statistical Bias



- Endogeneity bias
- The omitted variable
- Selection bias

Garbage In Garbage Out

AMAZON Talent Selection (unbalanced male and female entries)

AI's impact on human rights and dignity

COGNITIVE RIGHTS



Cognitive rights in Chile (October 2020) - 1st country in the world!

The Chilean Congress has presented an amendment to the constitution that defines **mental identity as a right** that must be protected from manipulation.

Many initiatives for AI ethics are underway:

- UNESCO launched a global consultation on its ethics project (summer 2020) and proposed the first recommendations (November 2022)
- OECD has formed an expert group to develop an ethics project (summer 2020)
- The European Parliament adopted 3 new resolutions related to AI (October 20, 2020)
 - **The liability Framework of AI**
 - **AI and intellectual property**
 - **The ethical framework of AI developments and the right to information**

Many AI research centers are working on this topic in Montreal, Melbourne, ...

AI's impact on human rights and dignity

VALUE ALIGNMENT



“ It is better to be sure that the goal set in the machine is the goal we really want. ”

Norbert Wiener, Founder of Cybernetics (1942)

How can we be sure that the machine will correctly interpret correctly what we want?

Example inspired by Stuart J. Russell

You tell the robot to "make your child dinner if you come home late.

- The robot will perform the task
- But the housekeeper forgot to cook
- Your child will demand dinner
- The robot obeys and tries to improvise a dinner.
- Only the cat is around!



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Ai movement's Mission & Values

Artificial intelligence for augmented intelligence

Ai movement's ambition is to make Morocco a regional AI hub impacting its ecosystem, strategically, educationally and industrially. The solutions we are developing are



innovative



operational



resilient



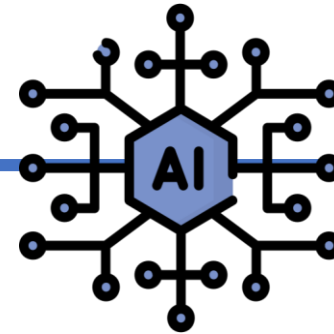
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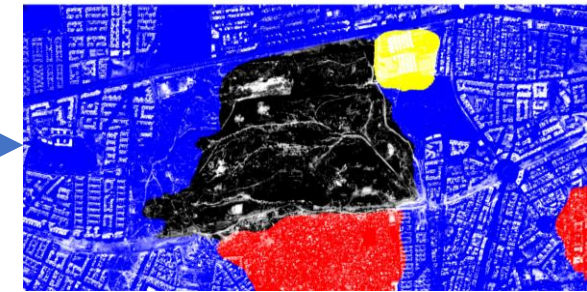
Ai movement's contributions to 4 SDGs



Input:
A satellite image



Output:
A wealth distribution



■ Poor Zone ■ Average Zone ■ Industrial Zone



Cognitive
robotics



Cobotics



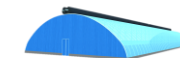
Handling



Digital twin



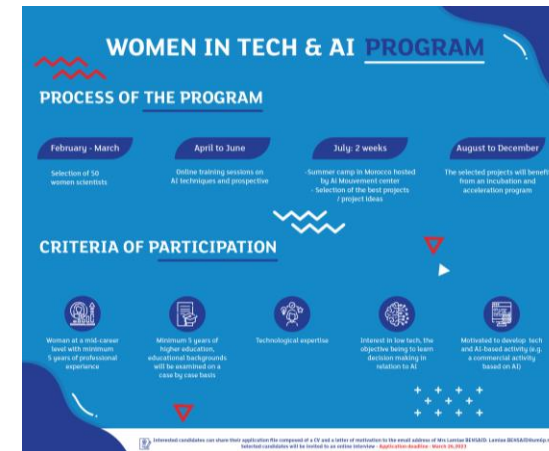
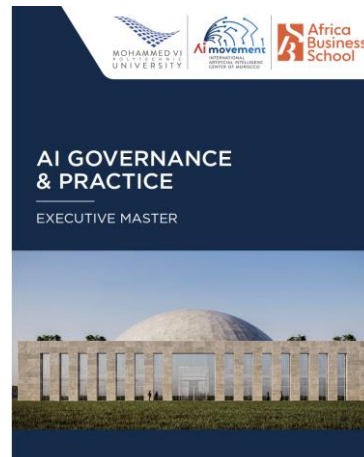
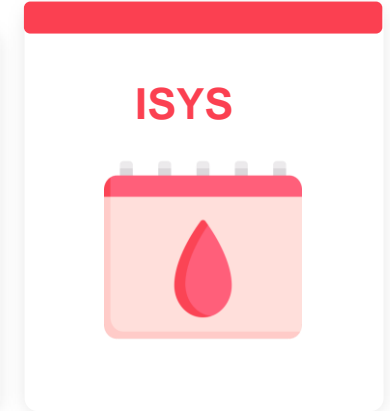
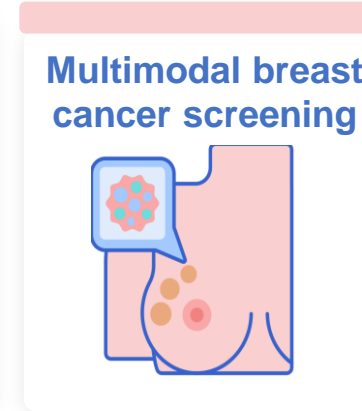
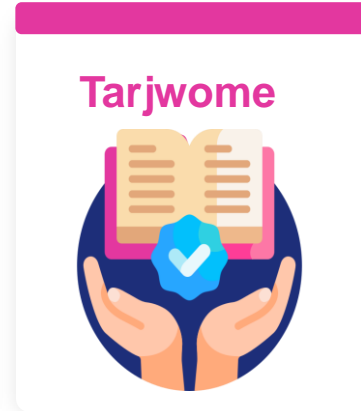
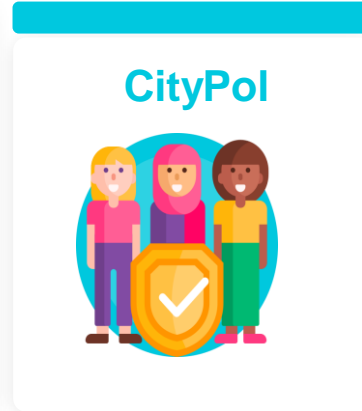
Warehouse
manageme



Drones



Ai movement's contributions to 4 SDGs



Thank you!

Let us move together with ethical & responsible Ai

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