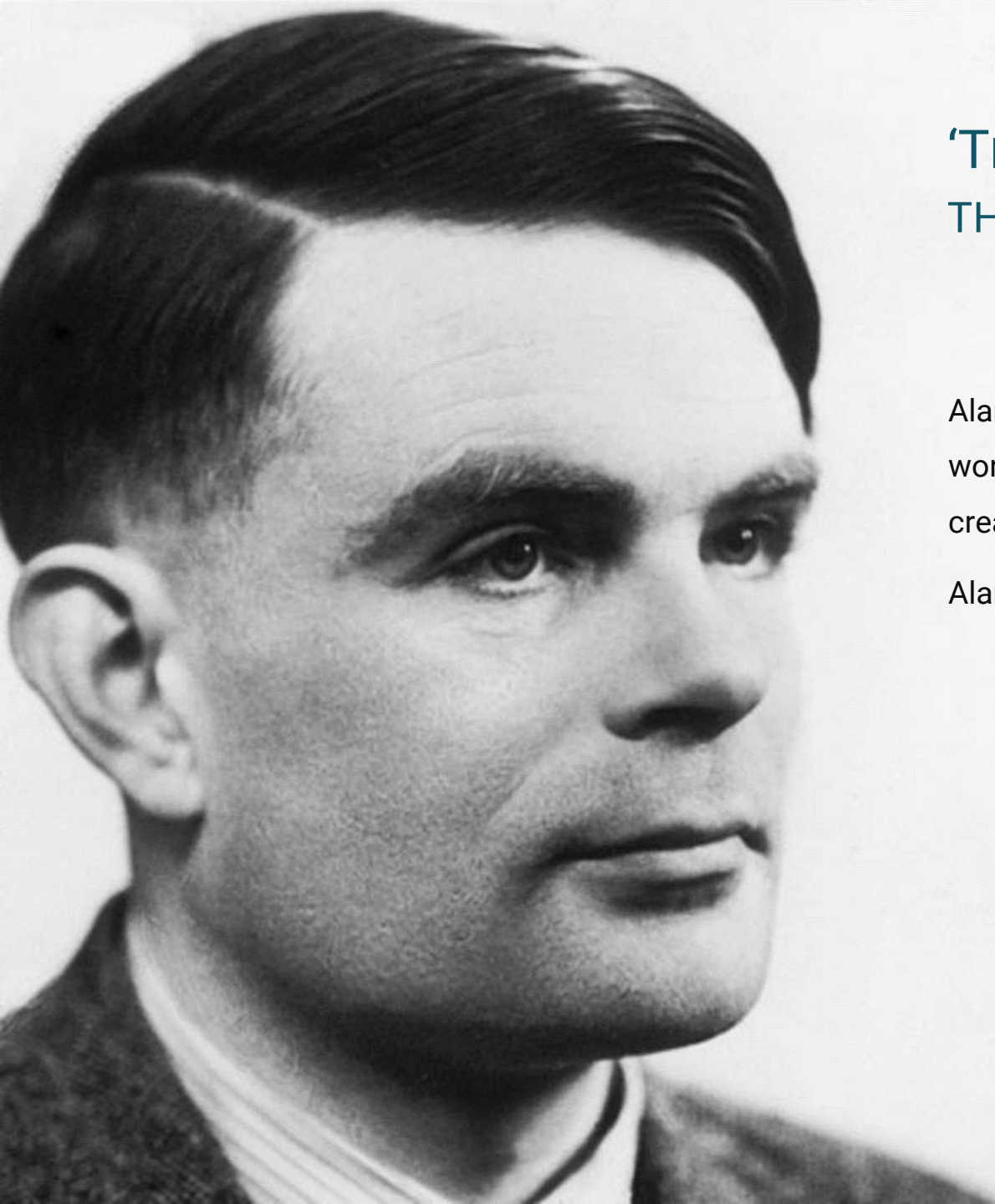# Art and Artificial Intelligence When Humanities meet Science and Technology

'THOSE WHO CAN IMAGINE ANYTHING, CAN CREATE THE IMPOSSIBLE'

Alan Turing

Alan Turing is the father of computer science and artificial intelligence and his work pioneered research advances in mathematics, logics, cryptography, creating bridges between academia, industry and public sphere.

Alan Advantage is inspired by his work.

An automated decision system from The Twilight Zone's "Nick of Time" (1960)

"**The speed of analysis and decisions is no** *longer temporally tangible for humans*: **not only can they not calculate at the same speed as the machines, but above all they are unable to observe in real time what algorithms do.**"

Alexandre Laumonier

Rethinking the design practice so that the development of new technological products and services is always accompanied by a *long-range thought*, able to glimpse the impact that each of these products will have on society.
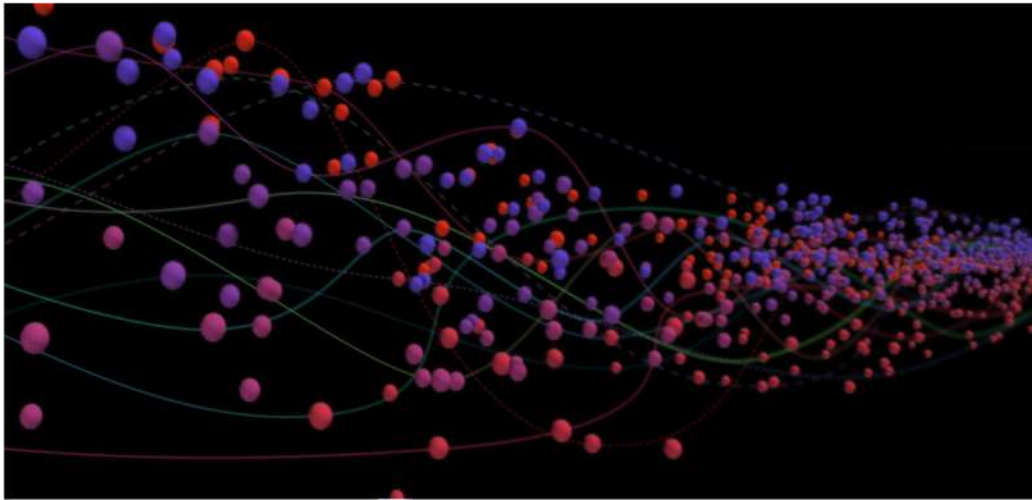
WHAT MAKES US REALLY HUMANS?

REPETITION

FAILURE

EMPATHY

ESTRANGEMENT

LAZINESS

FALL

BOREDOM

SLOWNESS

CULTURAL ANALYTICS


Artificial Intelligence with its ability to process a huge amount of data coming from our habits of life may represent on the one hand a danger of cultural flattening but on the other a powerful tool to intercept diversity.

COLLECTIVE INTELLIGENCE

Artificial Intelligence is also a collective intelligence, instrument of connection between different intellectual instances, we will see it in projects that envisage collaborative platforms and connections between different artistic practices.

ARTIFICIAL INTELLIGENCE AGE

HUMAN PROGRESS THROUGH TIME
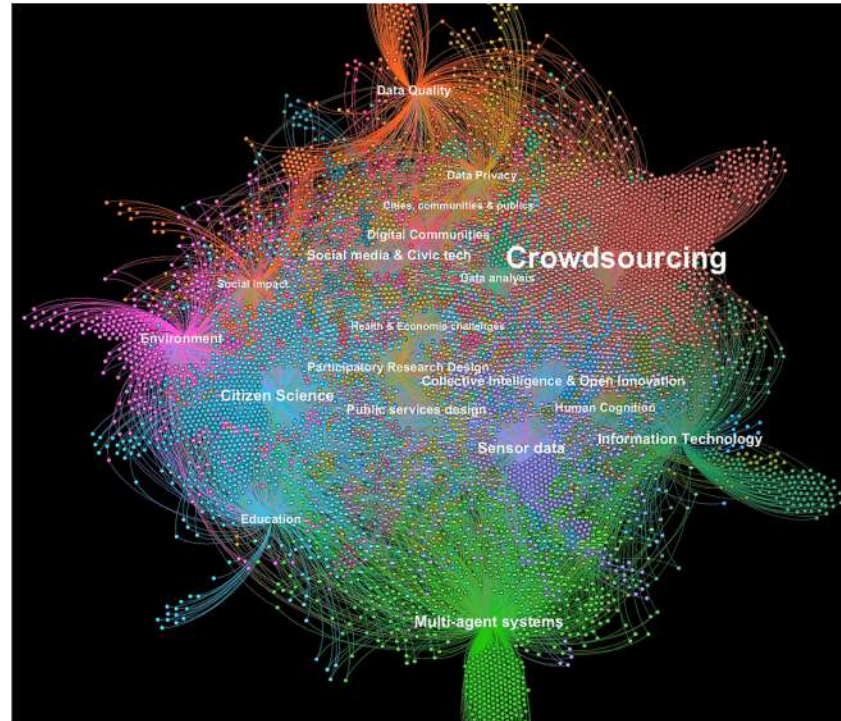
YOU ARE HERE

Big Data **+**

Processing Power **=**

New Age for Artificial Intelligence
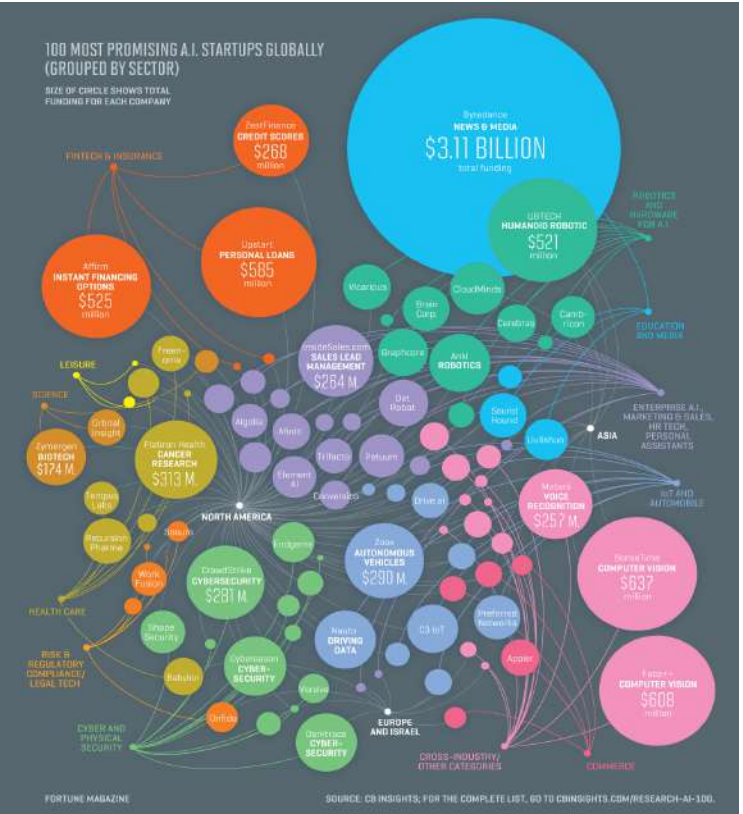
ARTIFICIAL INTELLIGENCE AGE

AI Equity Funding since 2012

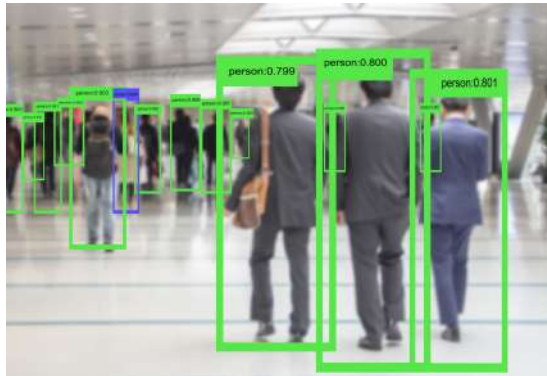**16+** Billion USD

2500 Deals

ARTIFICIAL INTELLIGENCE AGE   AI Technologies Main Areas

NLP   **MACHINE LEARNING**   **ROBOTICS**

PROGRESS IS COUPLED WITH NEW PROBLEMS TO SOLVE

The Telegraph

Home   News   Sport   Business   ALL SECTIONS

Technology Intelligence

Arizona residents attack self-driving cars

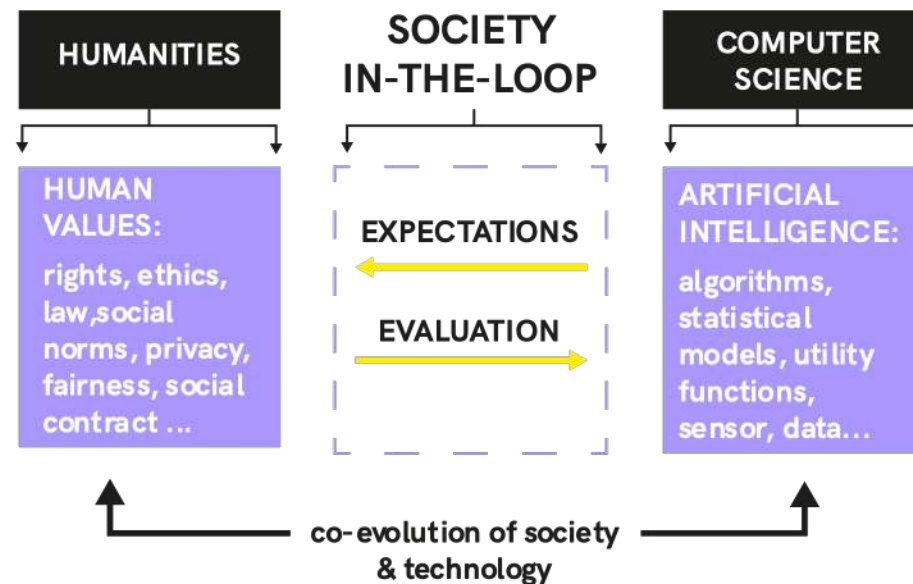Follow   Olivia Rudgard, SAN FRANCISCO
13 DECEMBER 2018 • 6:14PM

A rizona residents have attacked self-driving cars with rocks and slashed their tyres.

Police reports obtained by local media suggest that the Chrysler Pacifica cars run by Google sister company Waymo have become a target for some disgruntled locals, with 21 incidents recorded in the past two years.

TOWARDS A BETTER AI - SOCIETY IN THE LOOP

An important component of this picture is that both human values and AI are ongoing constant co-evolution. **Thus, the evolution of technical capability can irreversibly alter what society considers acceptable—think of how privacy norms have changed because of the utility provided by smart phones and the Internet.**

SOCIETY IN-THE-LOOP

HUMANITIES

HUMAN VALUES:

rights, ethics, law, social norms, privacy, fairness, social contract ...

EXPECTATIONS

EVALUATION

COMPUTER SCIENCE

ARTIFICIAL INTELLIGENCE:

algorithms, statistical models, utility functions, sensor, data...

co-evolution of society & technology

PUTTING THE SOCIETY IN THE LOOP REQUIRES US TO BRIDGE THE GAP BETWEEN THE HUMANITIES AND COMPUTING
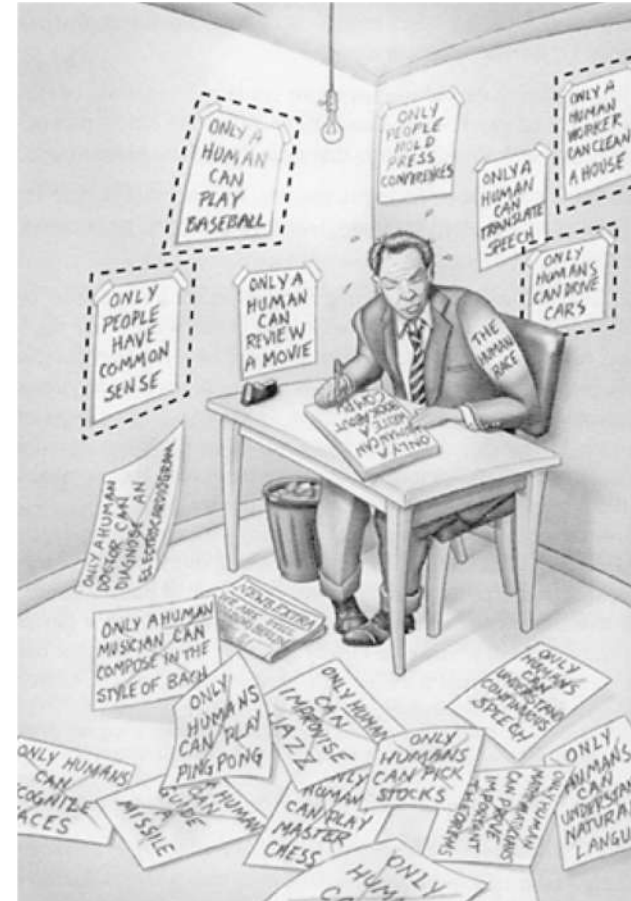
ITALY CAN PLAY A GLOBAL KEY ROLE
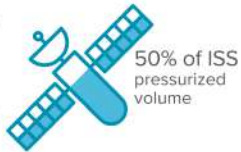
FACTS about ITALY

POPULATION
60 million+

4th studied **LANGUAGE**
after English, Spanish and Chinese

8th largest ECONOMY
$ 1,850tn GDP
2016

- United States
- China
- Japan
- Germany
- United Kinkdom
- France
- India
- **Italy**

SCIENCE
8th country for number of **scientific publications**
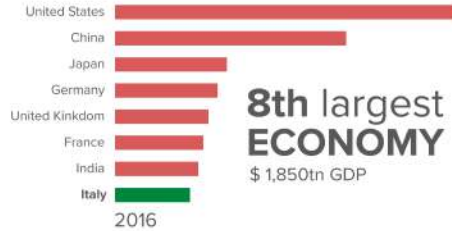
TECHNOLOGY
Several leading technologies

Aerospace
3rd country to send a satellite in orbit

50% of ISS pressurized volume

AUTOMATION
6th for installed industrial robots

MANUFACTURING
5th largest trade surplus in manufactured goods

€100 bn machinery export

MAJOR INFRASTRUCTURES
Industry world leader

90 Countries

1000 Construction sites

WORLD HERITAGE
Greatest number of **UNESCO** sites

= cultural sites
= natural sites

30%
of **€32** bn global design market

DESIGN
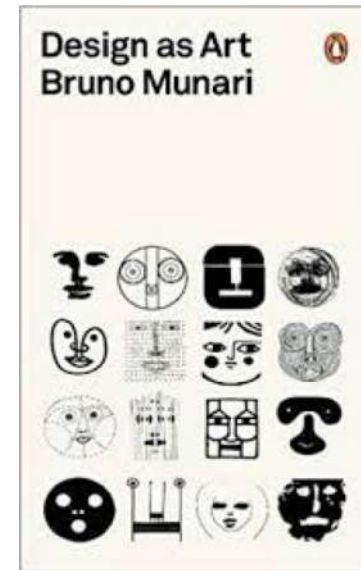
FISHING FROM OUR HISTORY: BRUNO MUNARI

<<Non ci deve essere un'arte staccata dalla vita: cose belle da guardare e cose brutte da usare>>

<<*There must not be an art detached from life: beautiful things to look at and bad things to use*>>

Design as Art
Bruno Munari

WHAT IS A «BEAUTIFUL» AI TECHNOLOGY?

- **A pleasant object, e.g. Amazon Echo or Google Home**

- **A robot that behaves in an effective and empathetic way towards a human being**

- **A dialogue of a machine with a human being, respectful of the ethical and moral values of being in question**

- **A nice experience of using a predictive decision support session**

- **An effective yet beautiful wearable to wear, fashionable**
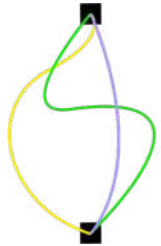
Martial Raysse, America, America (1964)

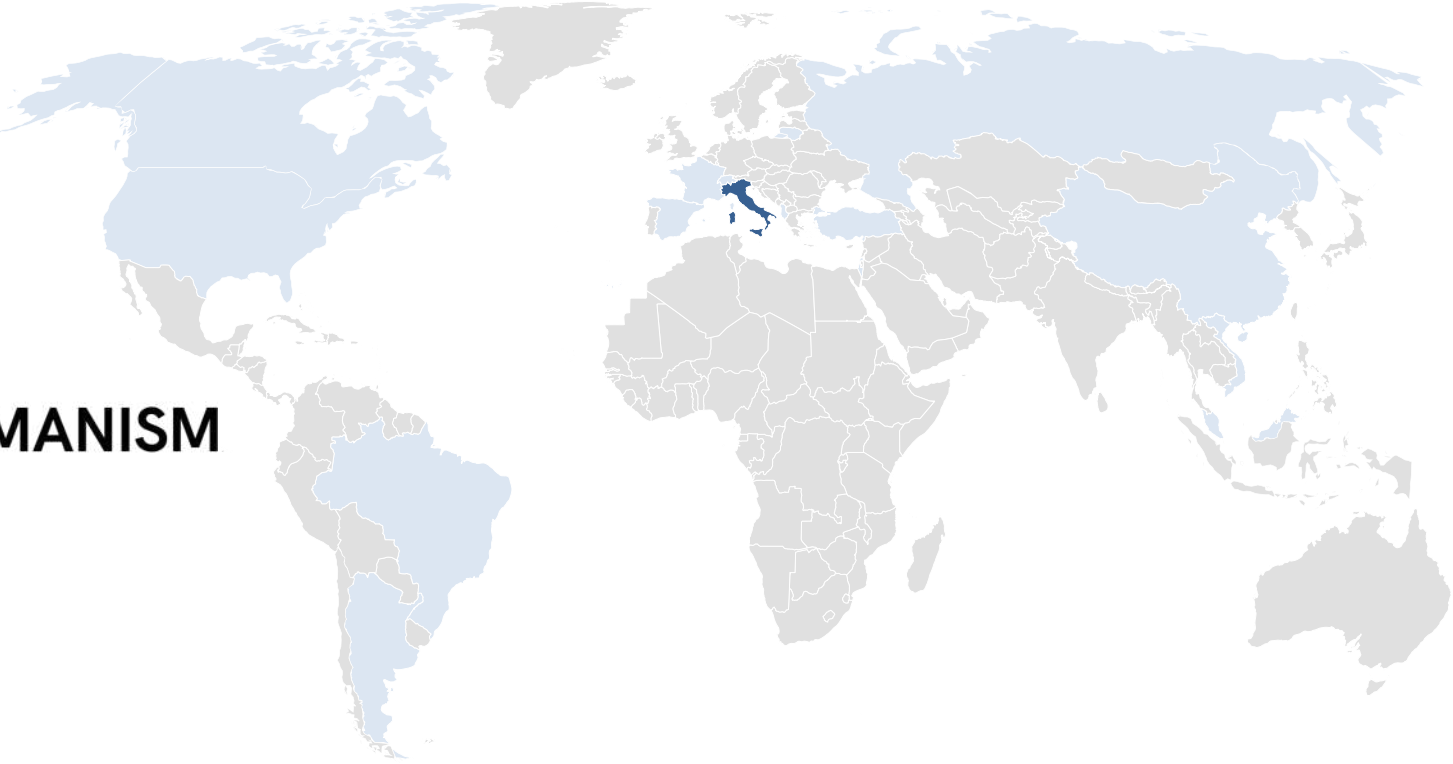## ITALY BASED INITIATIVES TO SUPPORT AI PROGRESS

Art Prizes and Exibitions
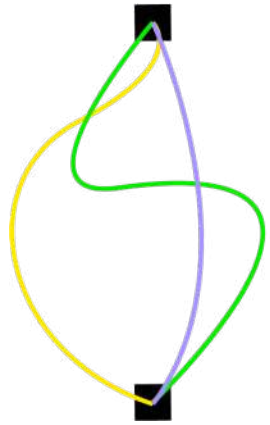
ITALY BASED ART PRIZES AND EXIBITIONS

RE:HUMANISM

■ ITALY 78%

□ WORLD 22%

ALBANIA ARGENTINA BOSNIA HERZEGOVINA BRAZIL CANADA CHINA FRANCE GERMANY GREAT BRITAIN ISRAEL ITALY LITHUANIA MALAYSIA RUSSIA SPAIN SWITZERLAND TURKEY VIETNAM USA
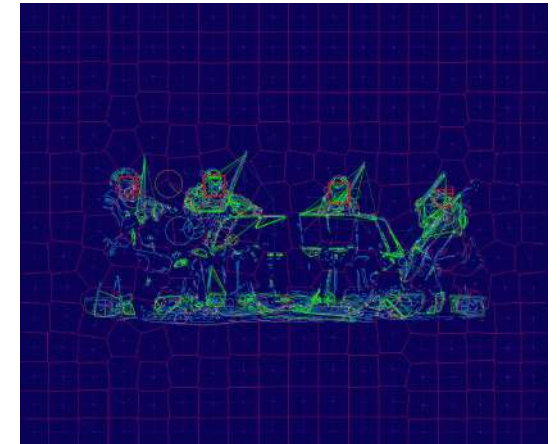
RE:HUMANISM

2 TYPES OF PROPOSALS

- Artists working **with algorithms**
- Artists who analyze **cultural changes**

THE EXHIBITION

AlbumArte is an independent and non-profit exhibition space in Rome, stands out for its international collaborations and for its talks and meetings on contemporary languages such as video art, painting, photography, sculpture, installation, performance, sound art, music concert, artistic residency, in supporting and promoting young artists and curators.

ITALY BASED INITIATIVES TO SUPPORT AI PROGRESS

**Training, Startups Incubation
and Acceleration**

ITALY BASED INITIATIVES TO SUPPORT AI PROGRESS

Funding Campaigns

INNOVATION MADE SIMPLE

🔗 www.alanadvantage.com

✉ alanadvantage@alanadvantage.com