

EOSC SYMPOSIUM 23

Regulating AI in the EU and impacts on the research sector

Emanuela Girardi

Madrid - 20th September 2023



The AI Data Robotics
Association

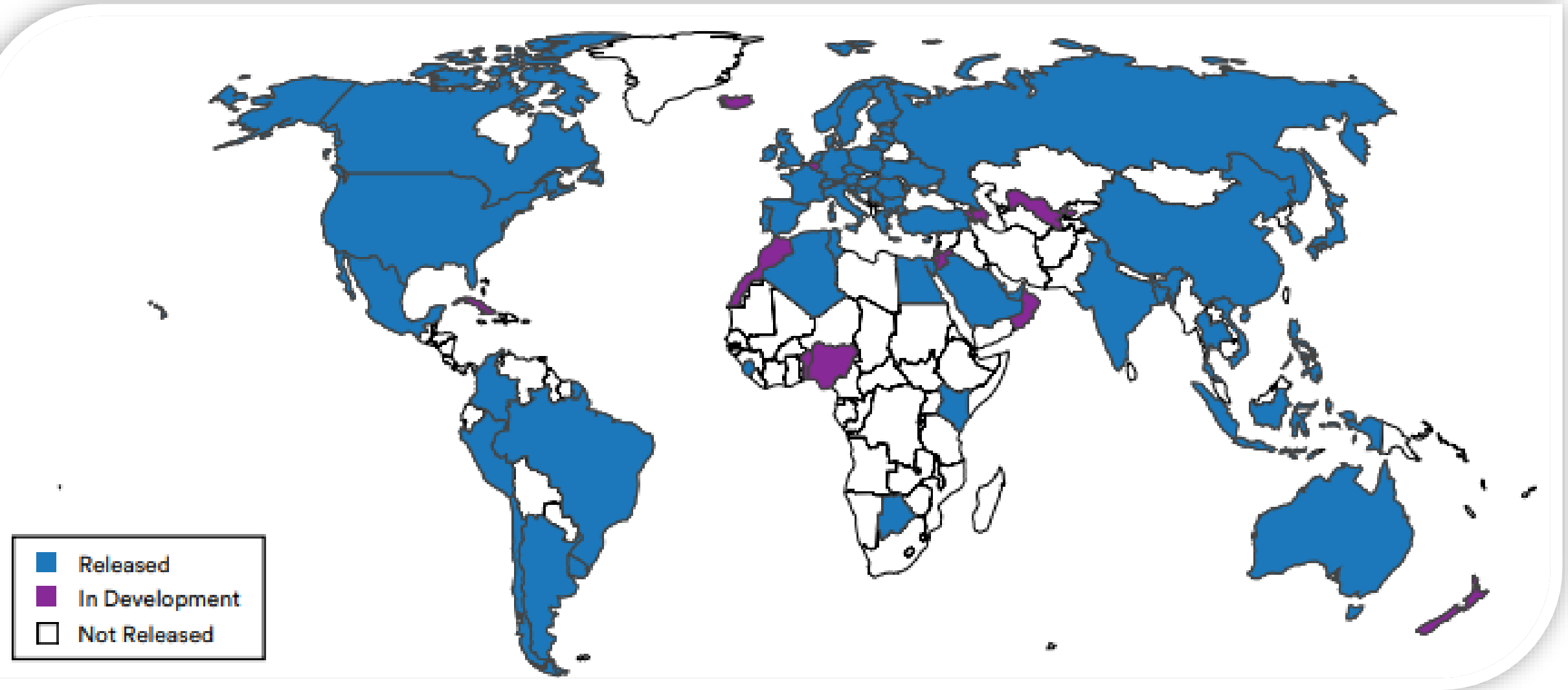


EOSC SYMPOSIUM 23

AGENDA

- The AI geopolitical landscape
- The European vision of AI
- AI Act and the impact on research and innovation
- Adra and the European Innovation Ecosystem

AI is a general purpose technology and is considered the strategic technology of the future

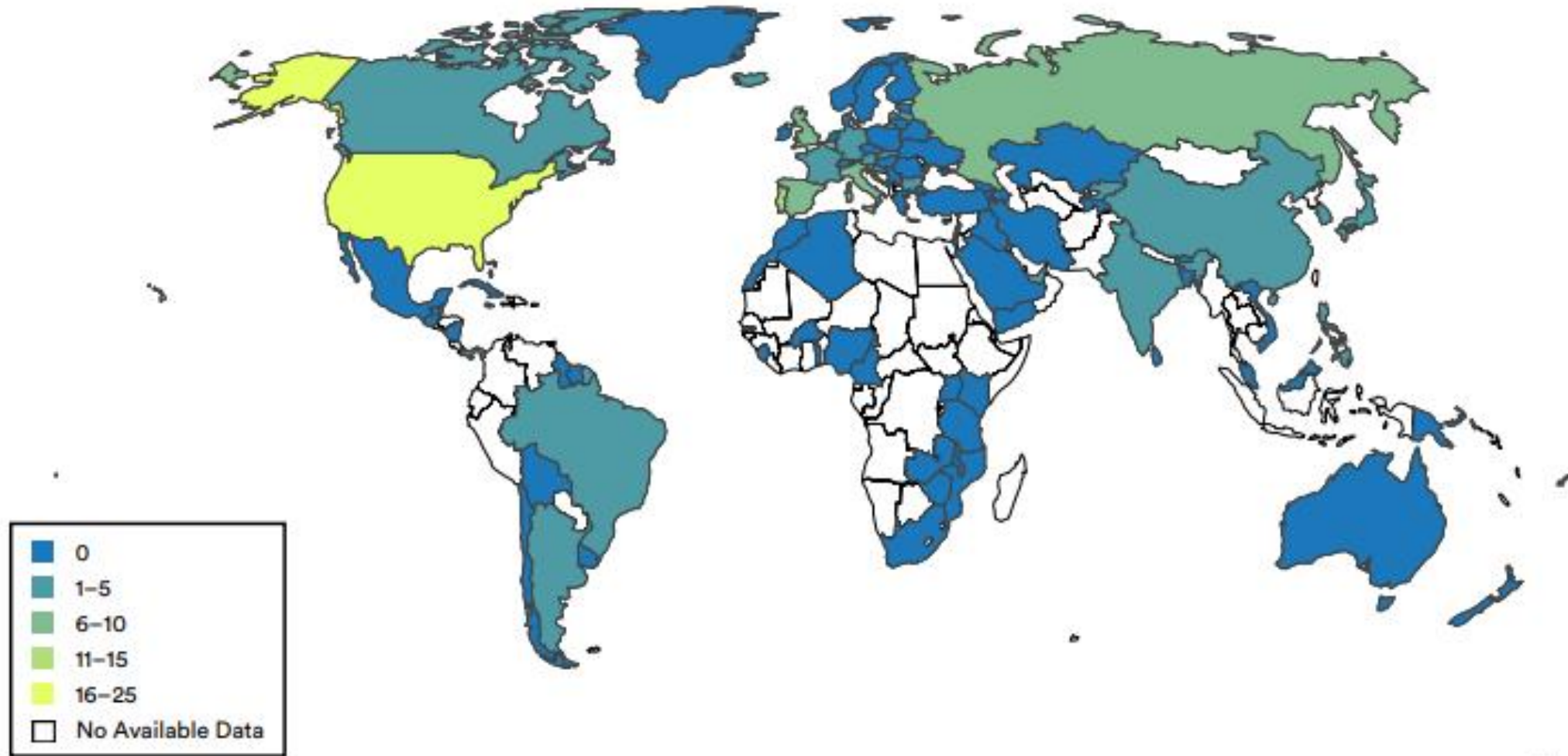


62 countries published an AI strategy

Ai regulation proposals

Number of AI-Related Bills Passed Into Law by Country, 2016–22

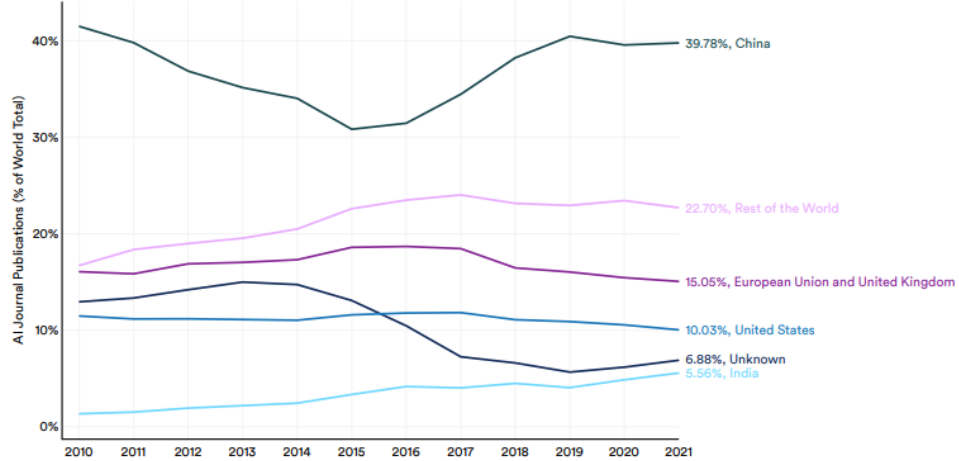
Source: AI Index, 2022 | Chart: 2023 AI Index Report



Research in AI

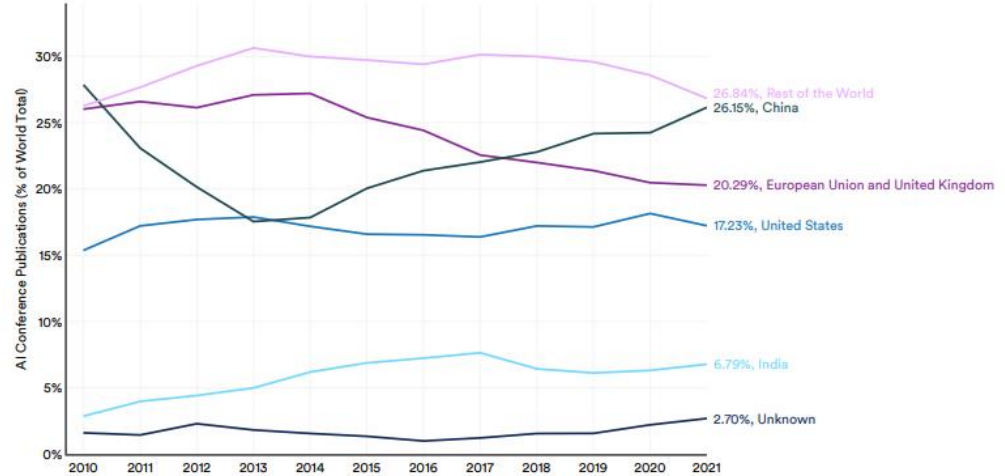
AI Journal Publications (% of World Total) by Geographic Area, 2010–21

Source: Center for Security and Emerging Technology, 2022 | Chart: 2023 AI Index Report



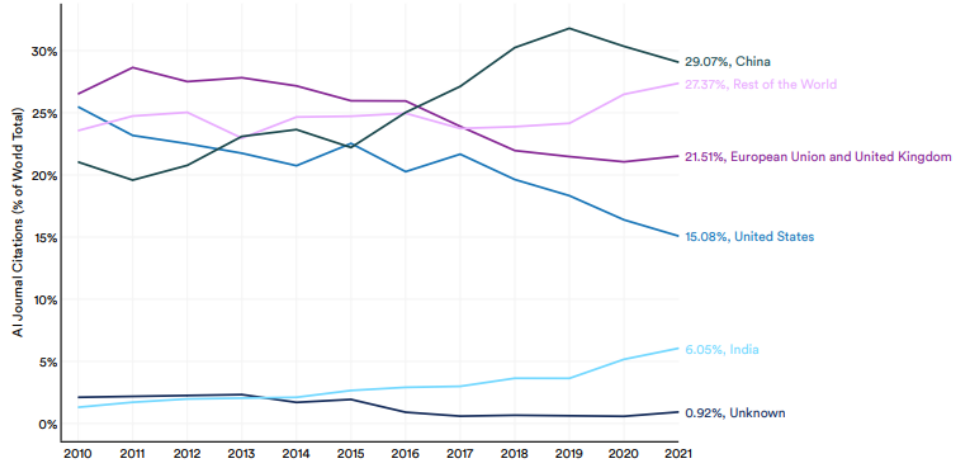
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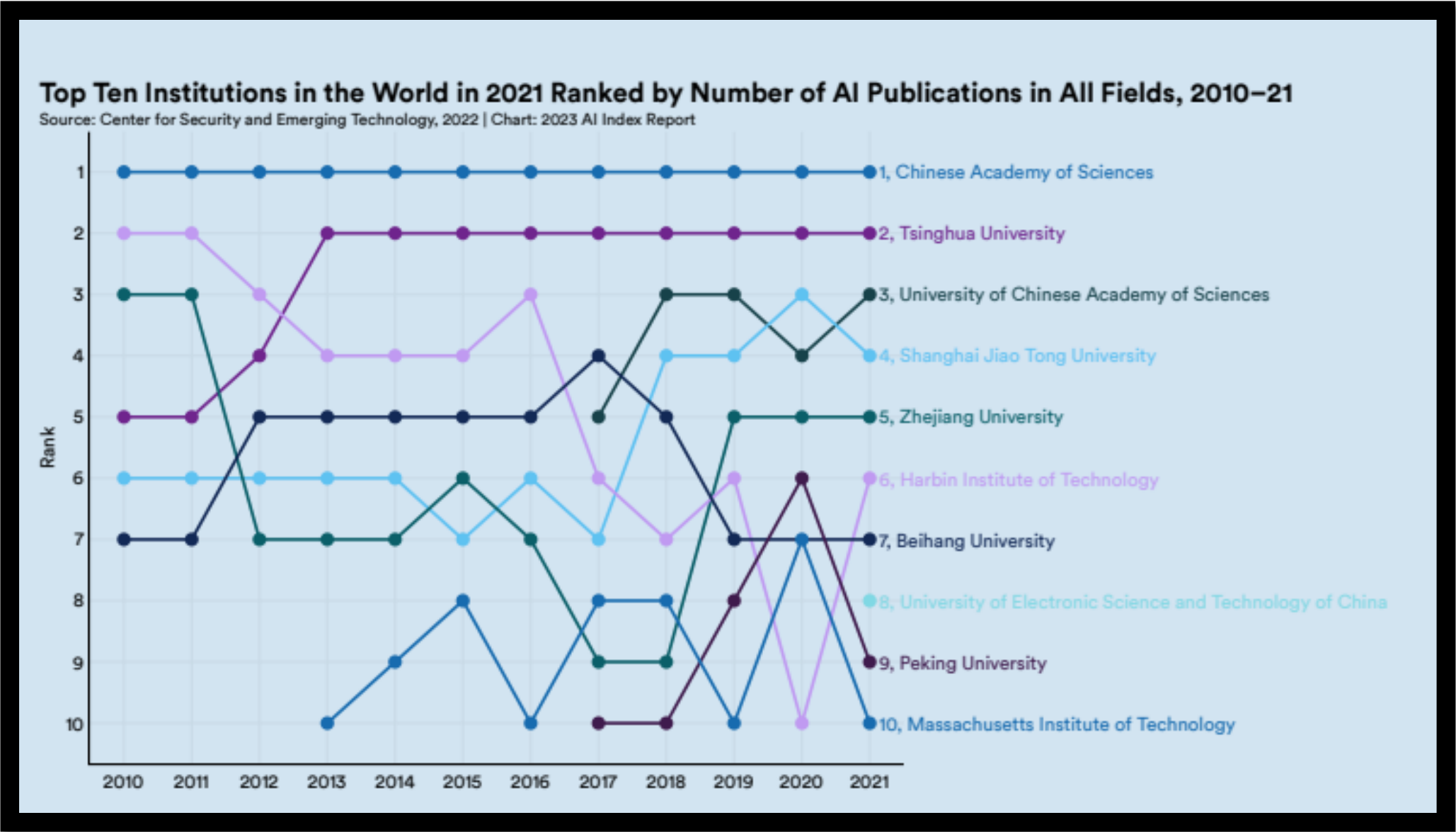


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Research in AI

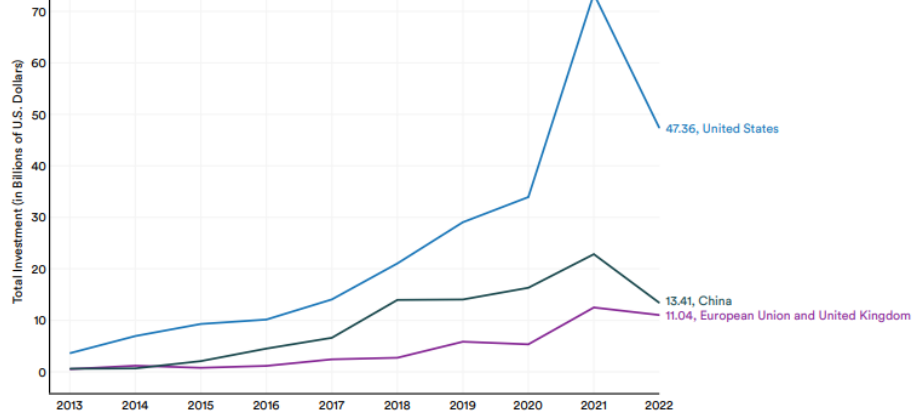


Source: AI INDEX – STANFORD HAI, March 2023

Private investment in AI

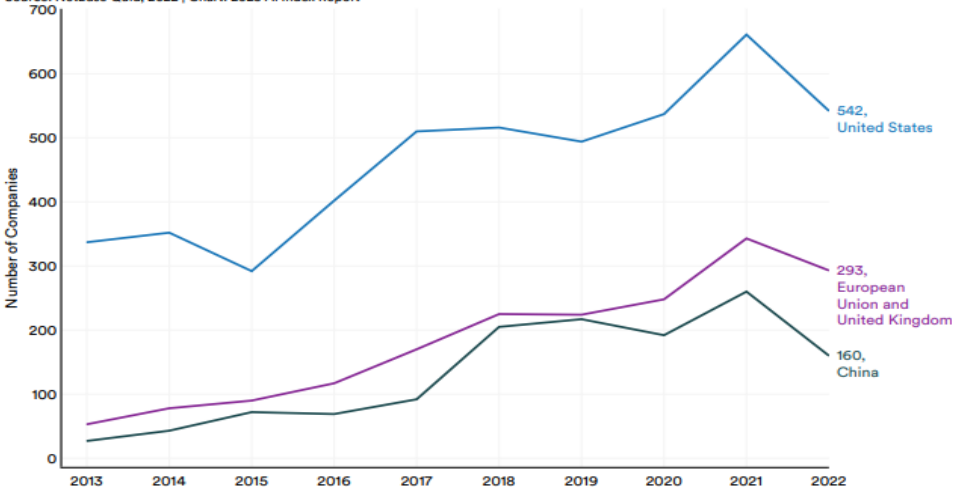
Private Investment in AI by Geographic Area, 2013–22

Source: NetBase Quid, 2022 | Chart: 2023 AI Index Report



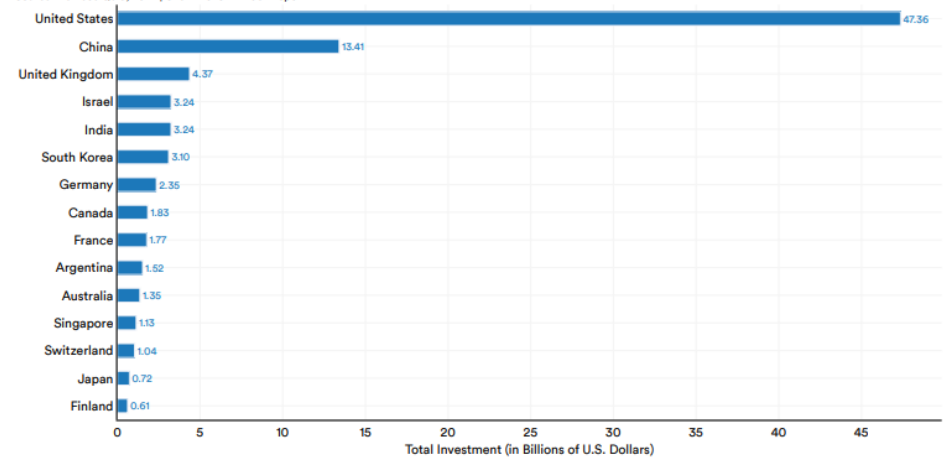
Number of Newly Funded AI Companies by Geographic Area, 2013–22

Source: NetBase Quid, 2022 | Chart: 2023 AI Index Report



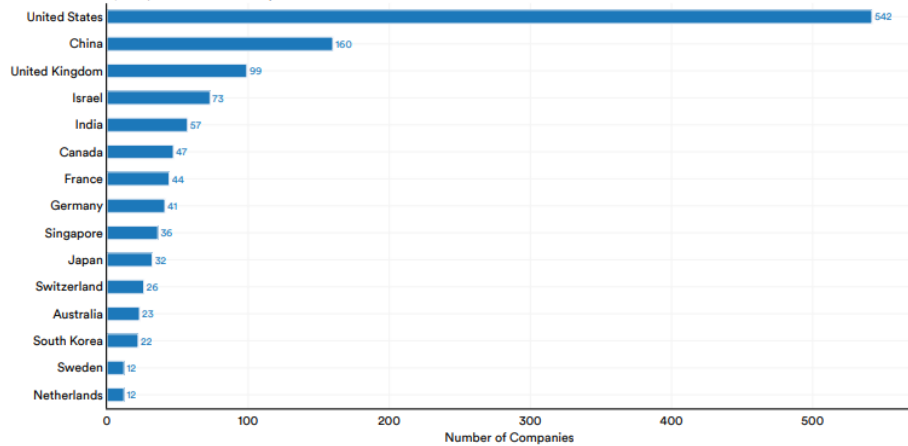
Private Investment in AI by Geographic Area, 2022

Source: NetBase Quid, 2022 | Chart: 2023 AI Index Report



Number of Newly Funded AI Companies by Geographic Area, 2022

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GLOBAL AI RACE



IN 2016 - CHINA
GLOBAL AI LEADER BY
2030

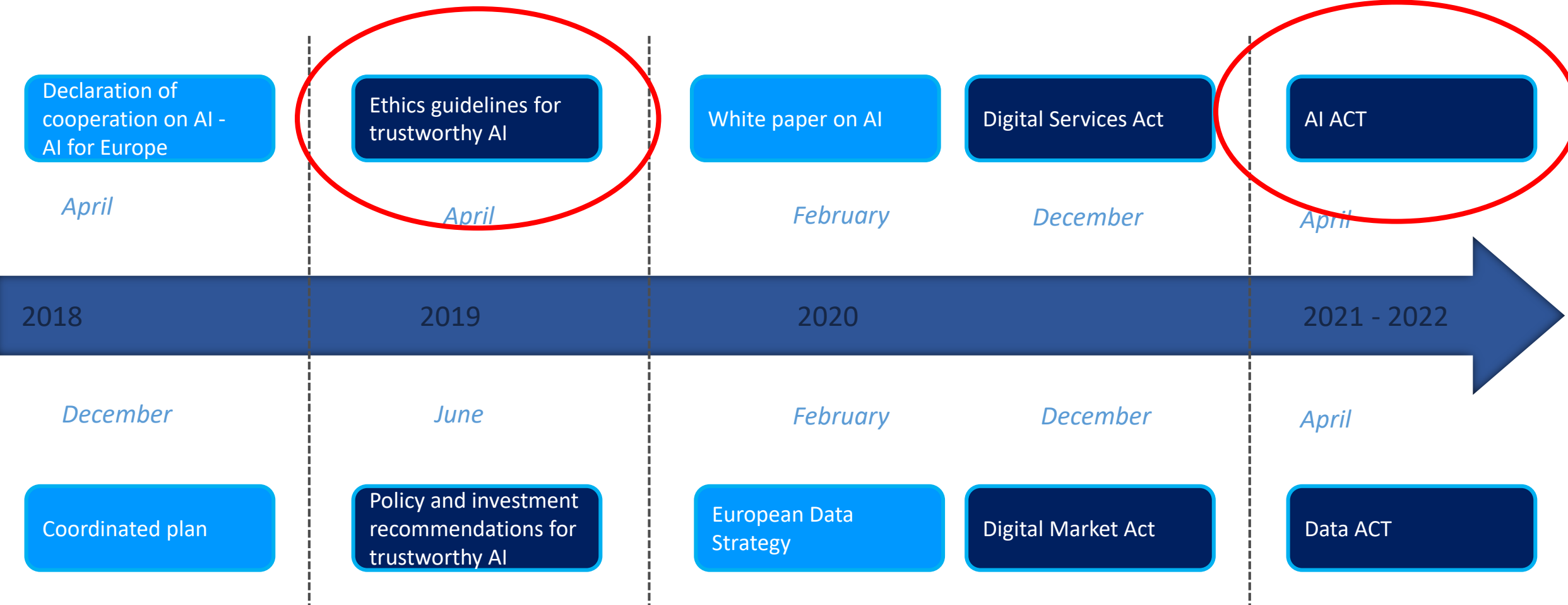


AI INNOVATION IS DRIVEN BY BIG
TECH COMPANIES



TRUSTWORTHY &
HUMANCENTRIC AI

EUROPE: AI OFFICIAL PAPERS





AI DEFINITION

Artificial intelligence (AI) refers to systems that display intelligent behaviour by analysing their environment and taking actions - with some degree of autonomy - to achieve specific goals.

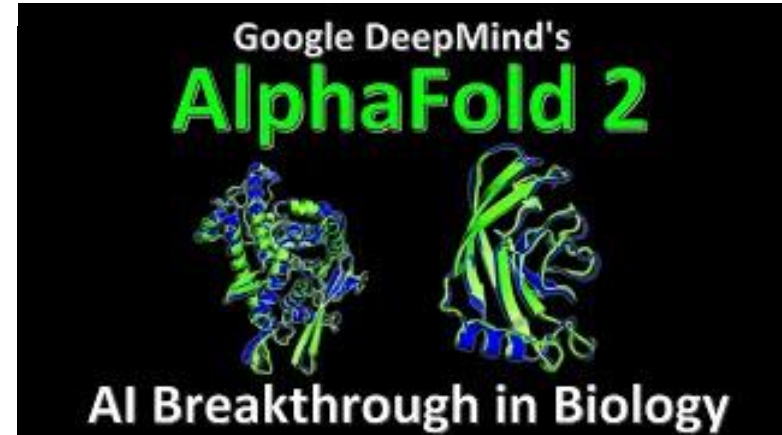
TRUSTWORTHY

HUMAN-CENTRIC

AI

DO YOU
FEAR OR
TRUST AI?





Pause Giant AI Experiments: An Open Letter

We call on all AI labs to immediately pause for at least 6 months the training of AI systems more powerful than GPT-4.

Signatures

33711

Add your signature

Published

March 22, 2023

Signed by: Steve Wozniak, Elon Musk, Yoshua Bengio, Stuart Russell....

Why AI Will Save the World

Marc Andreessen

Recently Added



Trending Now



My List

Feel Good Vibes

Sara + 3 others

50 mins



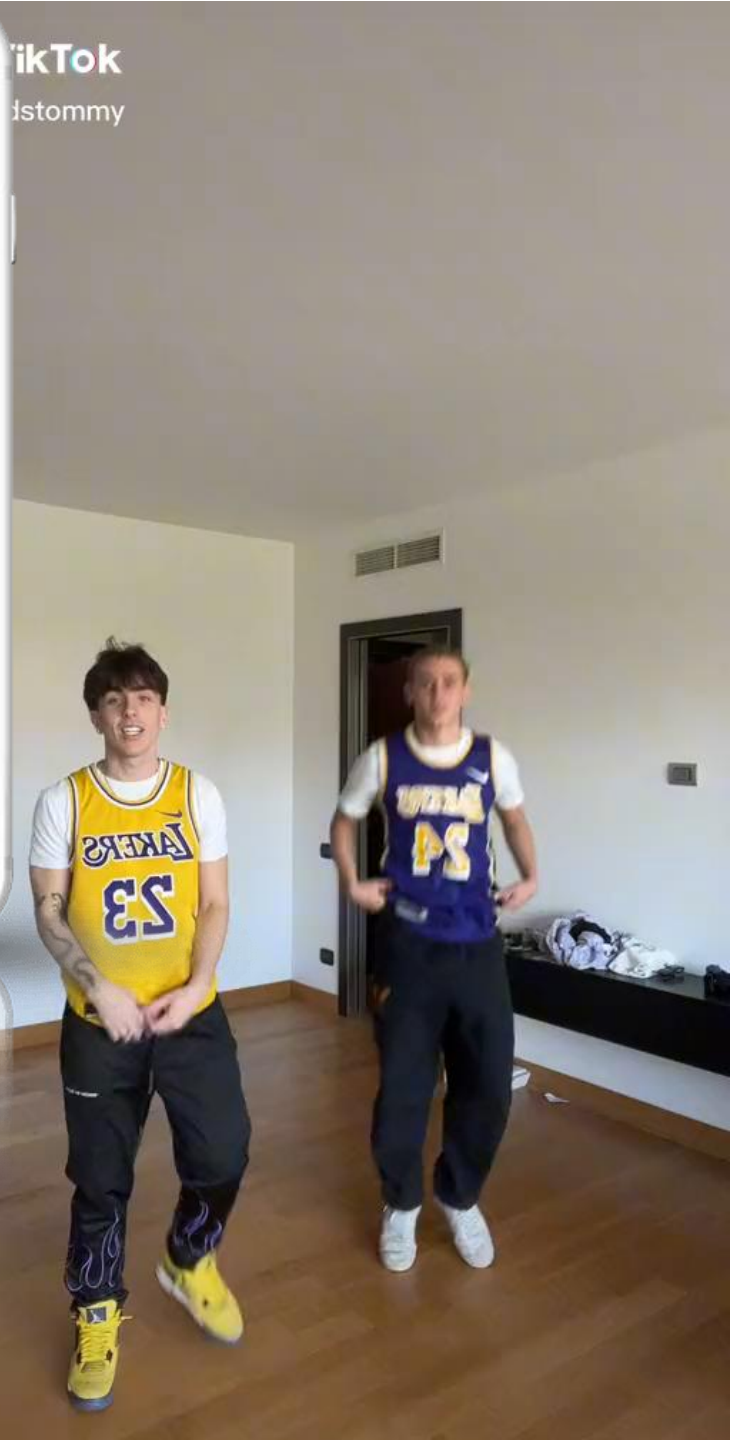
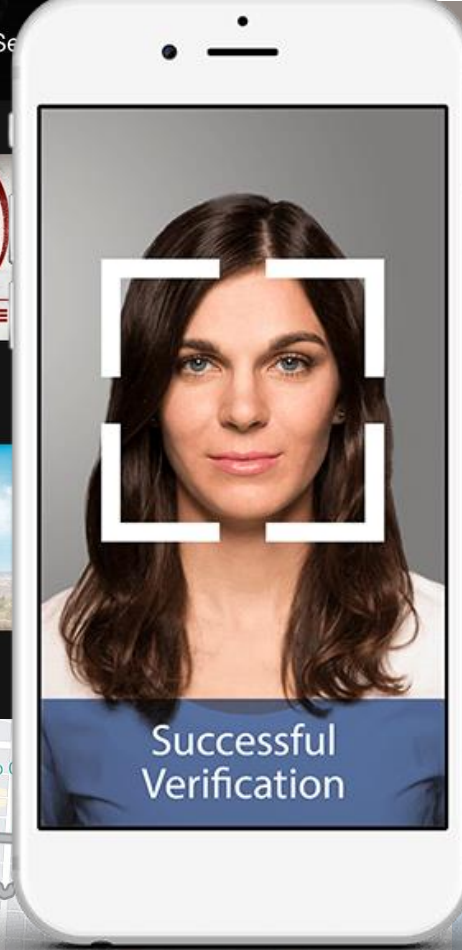
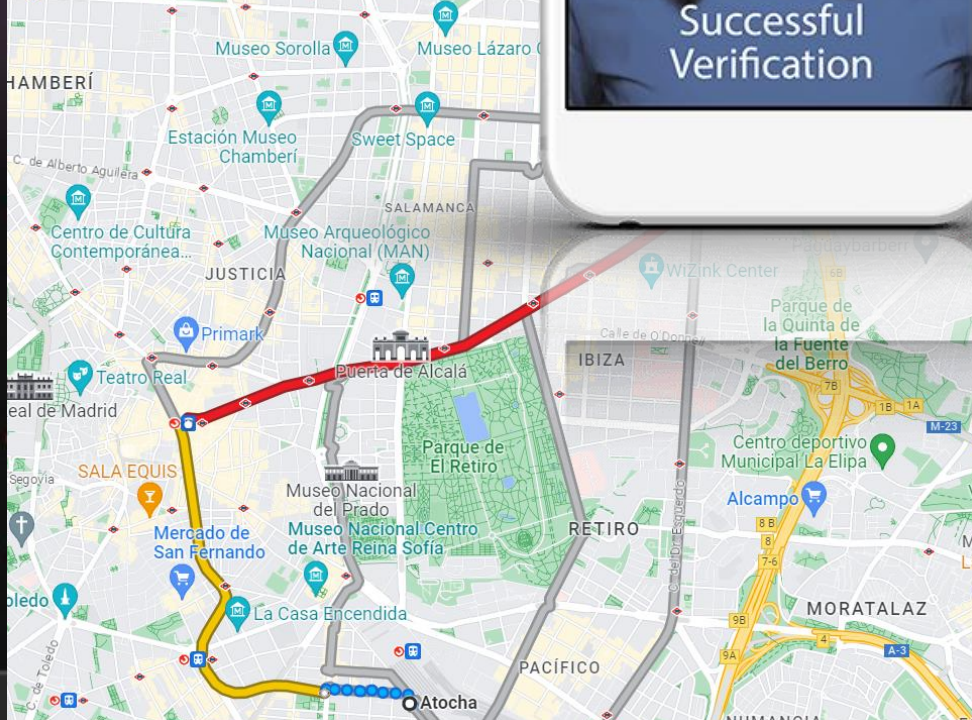
ADD SONGS

Victory
Steven Cooper

In Your Car
No Aloha

Domestic Sweater

Great Divide - Ira Wolf

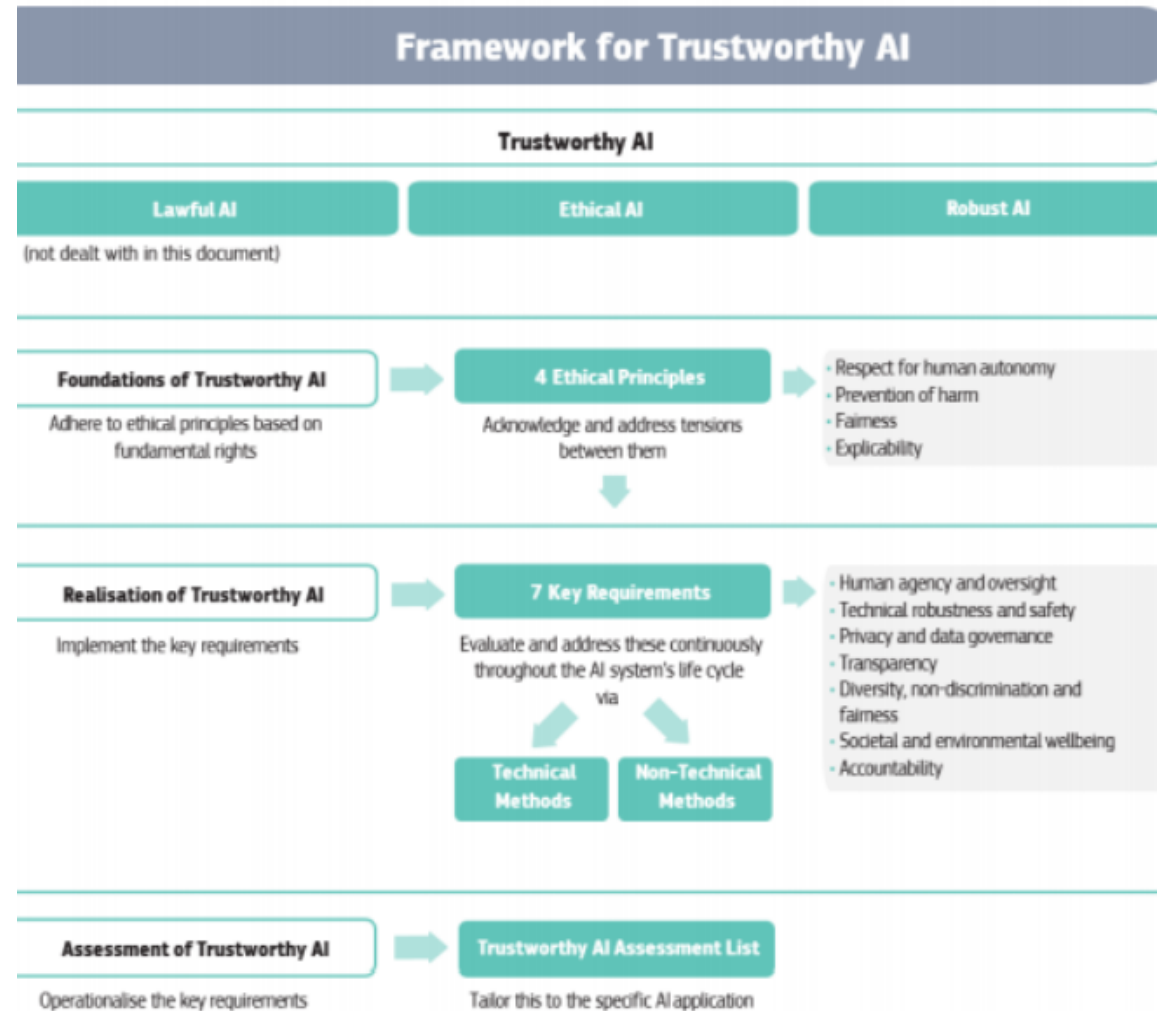


TikTok

stommy

What does Trustworthy AI mean?

- **LAWFUL AI**
- **ETHICAL AI**
- **ROBUST AI**



- **Human-centric AI**



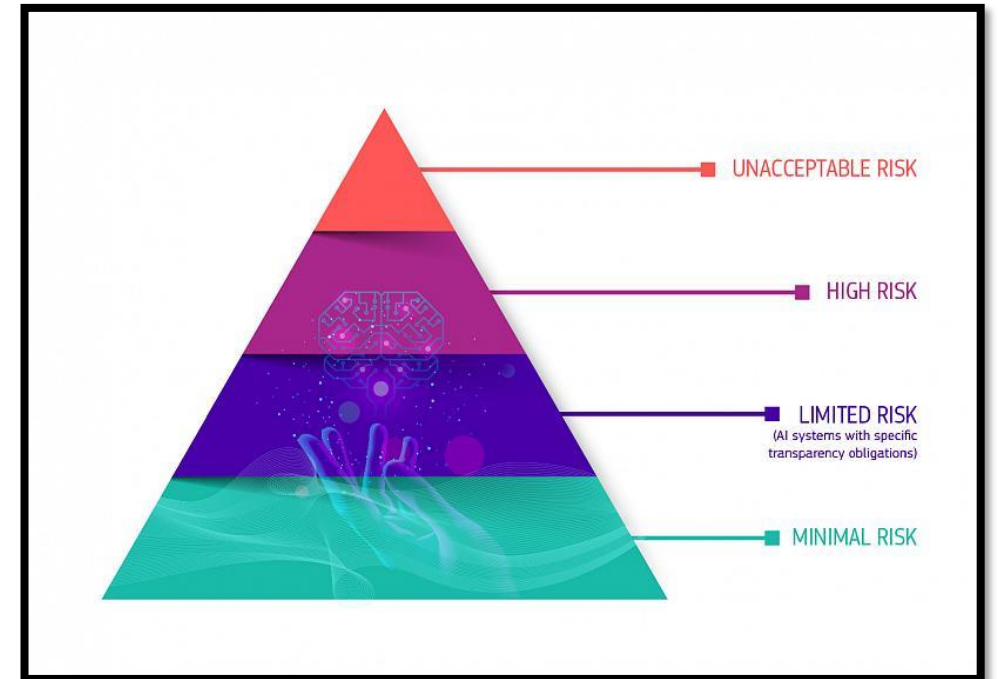
AI ACT: EUROPEAN AI REGULATION

EU is promoting the development of new global norms to make sure AI can be trusted.



On AI, trust is a must, not a nice to have.

The AI regulation proposes a risk based approach, where the principle of **proportionality** is applied with different measures related to different risk levels. The proposal identify 4 level of risks.

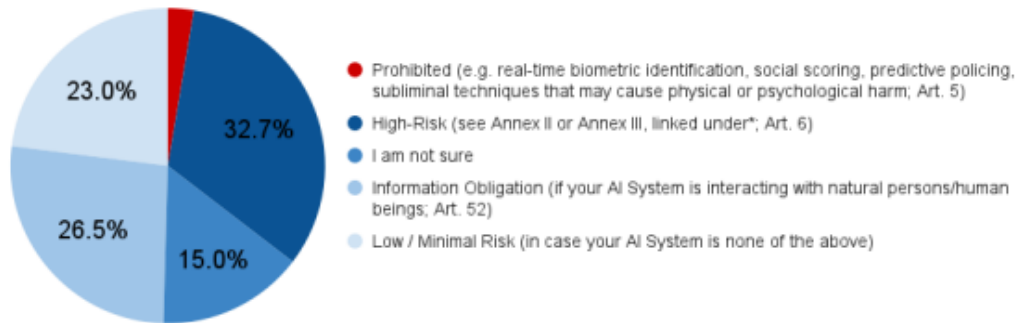


What is the impact on European research, companies and innovation?

EU institutions assure us that the regulations outlined in the AI Act actually only apply to commercial applications of artificial intelligence and do not restrict scientific research.

How many companies?

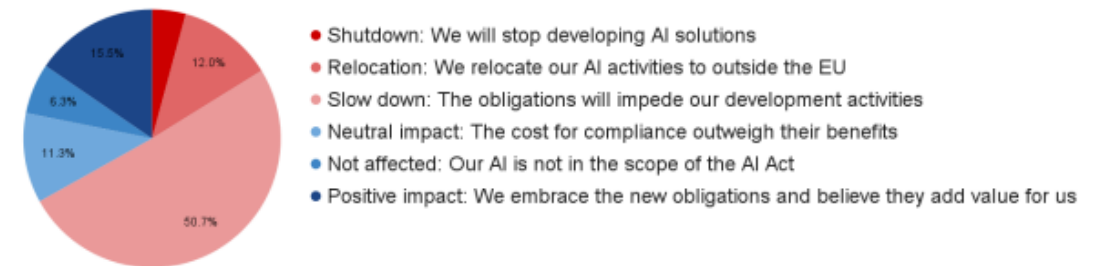
Q Considering the flag-ship Use Case of your Startup/company, in which risk class of the AI Act is it going to fall?* (N=113)



33% of the startup solutions could be classified as high-risk

Which impact on European Innovation?

Q What impact do you foresee for your company and how are you going to respond to those obligations? (multiple choice question, N=142)



2/3 expect a negative impact of the AI Act on AI Innovation in Europe



3 PILLARS:

- **Guardrails for AI**
- **AI Governance**
- **Guiding innovation in AI**



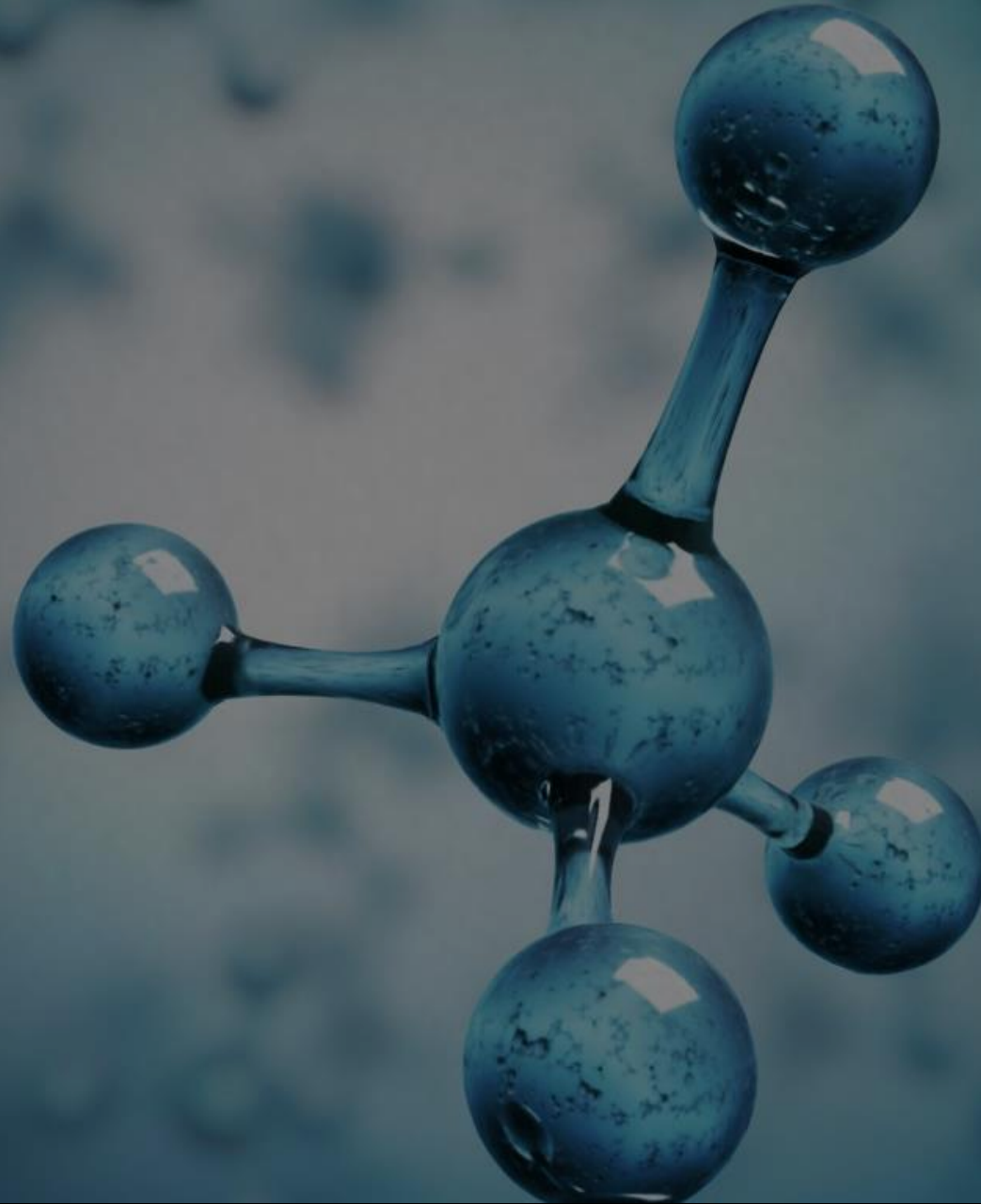
Britain can become the global hub for safe AI

 **AI SAFETY SUMMIT**
HOSTED BY THE UK | 1-2 NOVEMBER 2023

BALANCE BETWEEN REGULATION AND INNOVATION

Build European Innovation Ecosystems with research & industry partners.

- Strong
- Connected
- Ambitious





The AI Data Robotics
Association



A Joint
Initiative by

CLAIRE



Join Us!

www.adr-association.eu

The AI, Data and Robotics partnership (2021-2030)



European Commission
Public Side

Co-Programmed
Partnership

Adra Association
Private Side



The MoU signed between Adra and the European Commission 2021

- Up to **1.3** billion euros of public investment by the European Commission (through Horizon Europe)
- Up to **1.3** billion euros of private investment through Adra

General Objectives of the ADR Partnership and Adra



Secure **European's sovereignty** over AI, Data and Robotics technologies and knowhow

Establish **European leadership** in AI, Data and Robotics technologies with high socio-economic and environmental impact



Reinforce a **strong and global competitive position** of Europe in AI, Data and Robotics



BUILD BRIDGES BETWEEN
COMMUNITIES
INITIATIVES TECHNOLOGIES



The AI Data Robotics
Association

 
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Thank you