

Governing the Rise of AI: Strategies, Pathways, and Challenges

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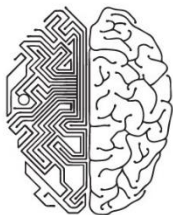
October 31, 2019

Our Mission is to advance the global governance of Artificial Intelligence and other emerging technologies.

We are an independent 501 (c)(3) non-profit 'think-and-do-tank' originally incubated at Harvard Kennedy School

Our Activities:

- ✓ Policy Research & Advisory Services
- ✓ Seminars & Summits
- ✓ Educational & Leadership Development Programs
- ✓ Special Projects



THE AI INITIATIVE

Initiative

The AI Initiative is the Artificial Intelligence governance practice at The Future Society.

Goal

Help shape the global policy and governance frameworks needed to capture the upsides and limit the downsides of Artificial Intelligence.

Network

Academia



Nonprofits



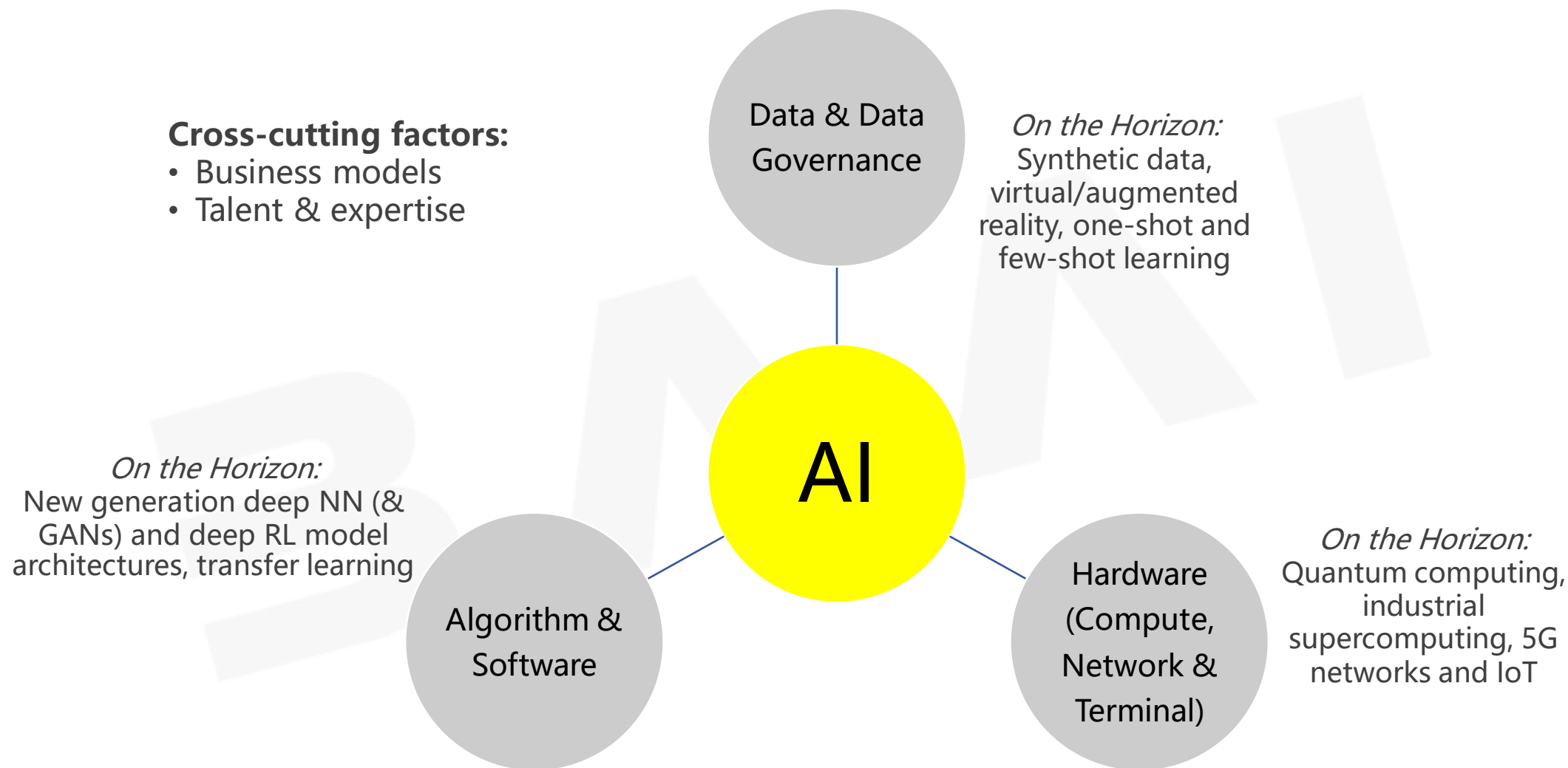
Gov



Our global reach

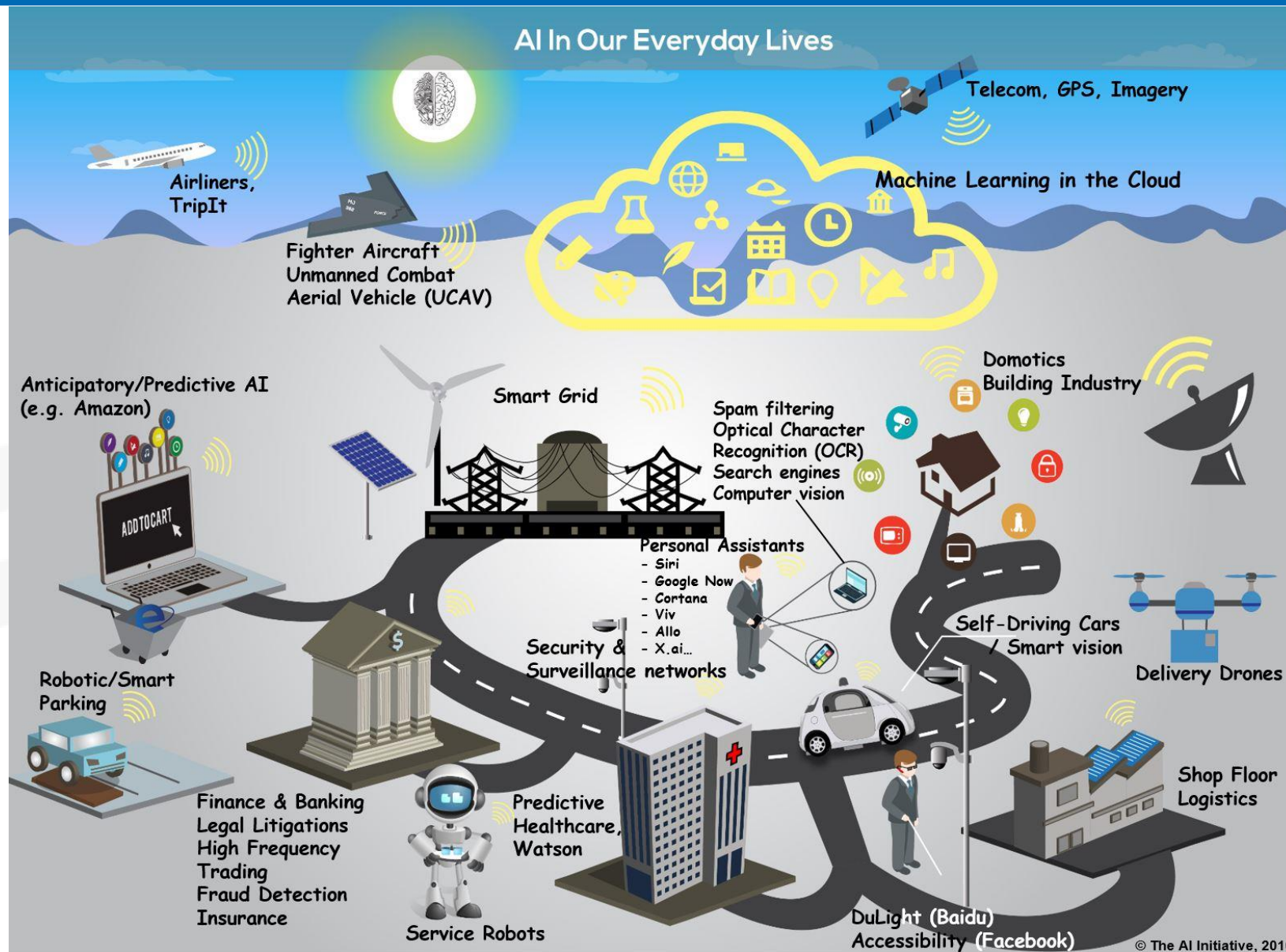


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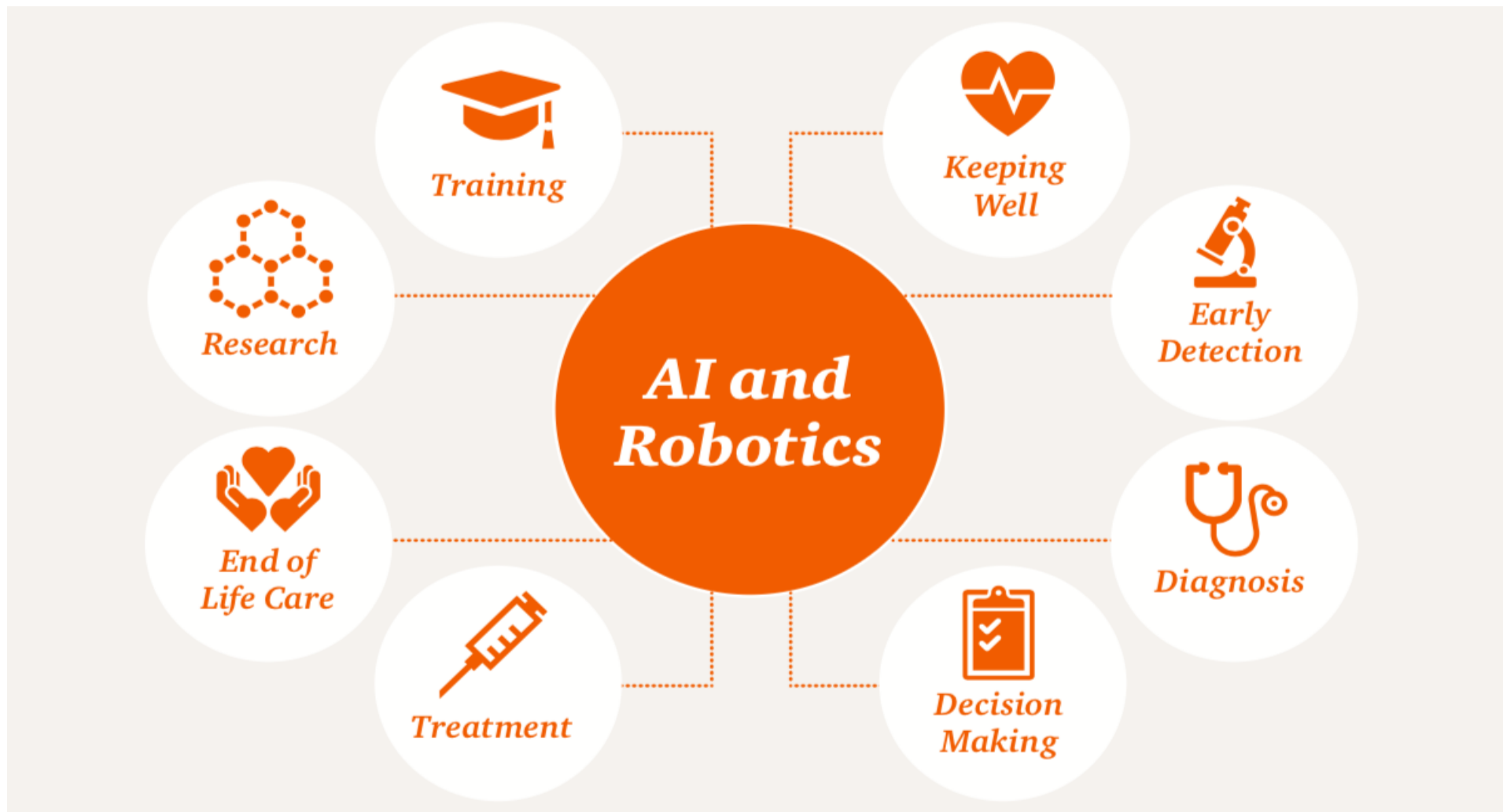


Ai is pervasive in our lives

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A Revolution in Healthcare



PwC, (2017), "What doctor? Why AI and robotics will define New Health"

AI Ethics

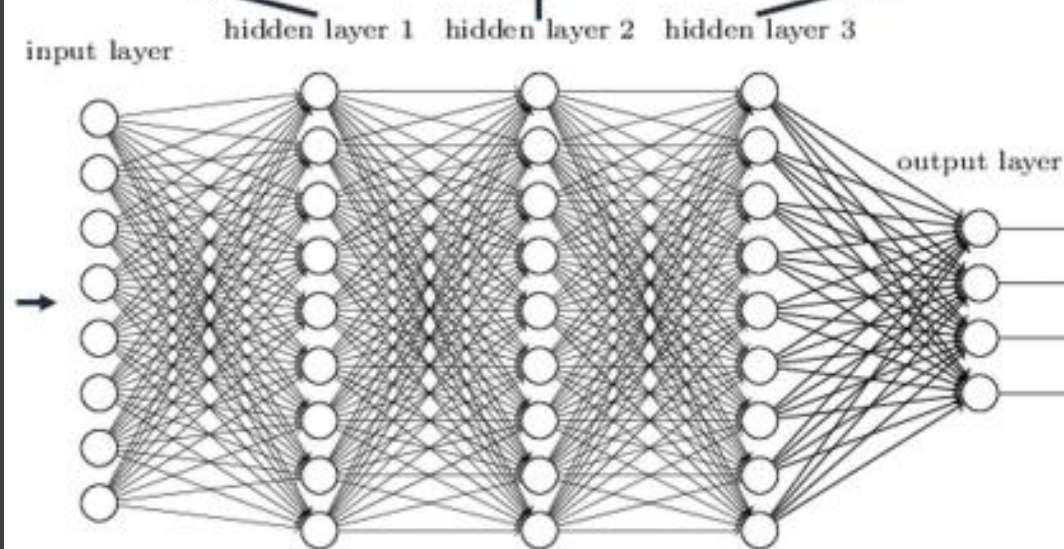
AI involves major risks



Future of Humanity Institute University of Oxford Centre for the Study of Existential Risk University of Cambridge Center for a New American Security Electronic Frontier Foundation OpenAI

The Malicious Use of Artificial Intelligence: Forecasting, Prevention, and Mitigation

February 2018



Online Ads for High-Paying Jobs Are Targeting Men More Than Women

New study uncovers gender bias

When Algorithms Discriminate

The online world is shaped by forces beyond our control, the stories we read on Facebook, the people we meet on OkCupid, the search results we see on Google. Big data is used to make decisions in health care, employment, housing, education and policing.

Amazon just showed us that 'unbiased' algorithms can be inadvertently racist

Technology

Google apologises for Photos app's racist blunder

1 July 2015 Technology



Do Google's 'unprofessional hair' results show it is racist?

Leigh Alexander

TOM SIMONITE BUSINESS 08.21.17 09:00 AM

MACHINES TAUGHT BY PHOTOS LEARN A SEXIST VIEW OF WOMEN

Results of black women, which some say is just reflecting the wider social landscape



It searches for 'unprofessional hair for work' (left) and 'professional hair for work' (right) on Google

When it Comes to Policing, Data Is Not Benign

The New York Times <https://nyti.ms/2iBYoIW>

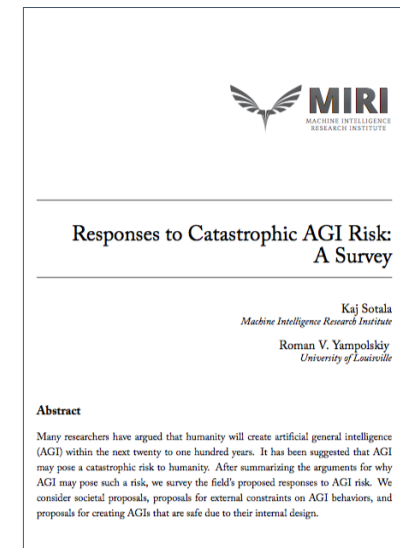
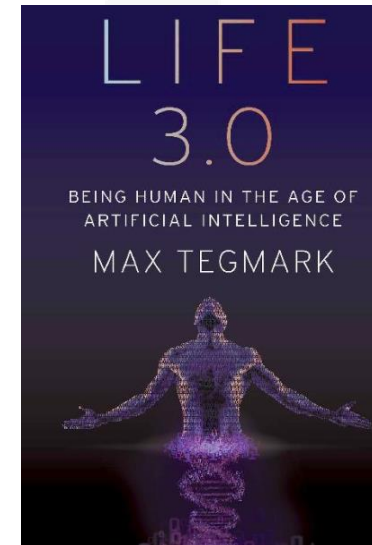
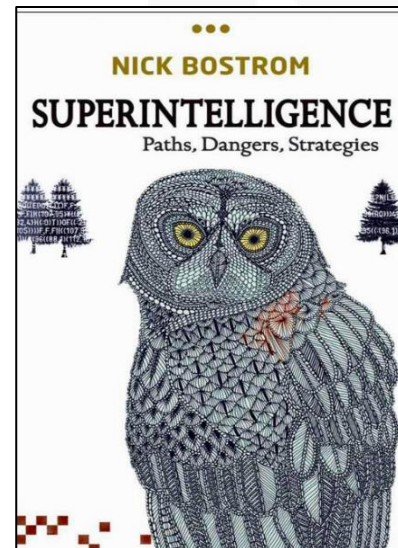
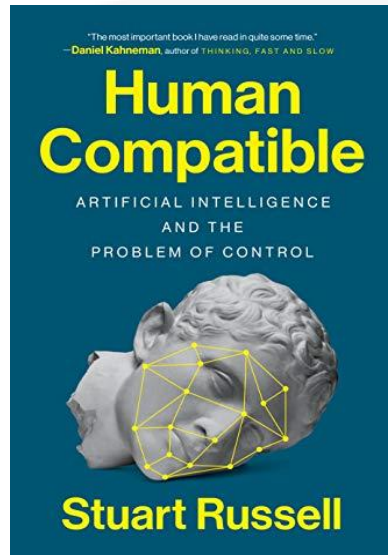
Opinion | OP-ED CONTRIBUTOR

When an Algorithm Helps Send You to Prison

By ELLORA THADANEY ISRANI OCT. 26, 2017

Amazon Prime and the racist algorithms

- Safety: Value alignment, control, corrigibility
- Race dynamics or narratives speed up innovation without safety & ethical precautions



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Agency & Co-Existence of AI

Ethical Risks:

- Bias & lack of fairness
- Lack of privacy
- Lack of autonomy & agency
- Persuasion & deception
- Cybersecurity
- Weaponized AI
- Unemployment
- Inequality & Digital divide
- Safety & existential risks
- Unforeseen risks...

Beneficial innovation:

- Access to goods & services (healthcare, credit & loans, education, legal)
- Productivity & economic growth
- Efficiency and cost savings
- Efficient drone & AV transport
- Satellite imagery for environment, humanitarian planning, disaster relief
- Efficient energy & resource usage
- Language translation & dictation
- ...and many more

- Developing AI: private companies, public sector (e.g. defense), nonprofits, academia
- Deploying AI: Startups & SMEs, corporates, public sector, international & development organizations

"BHATX"

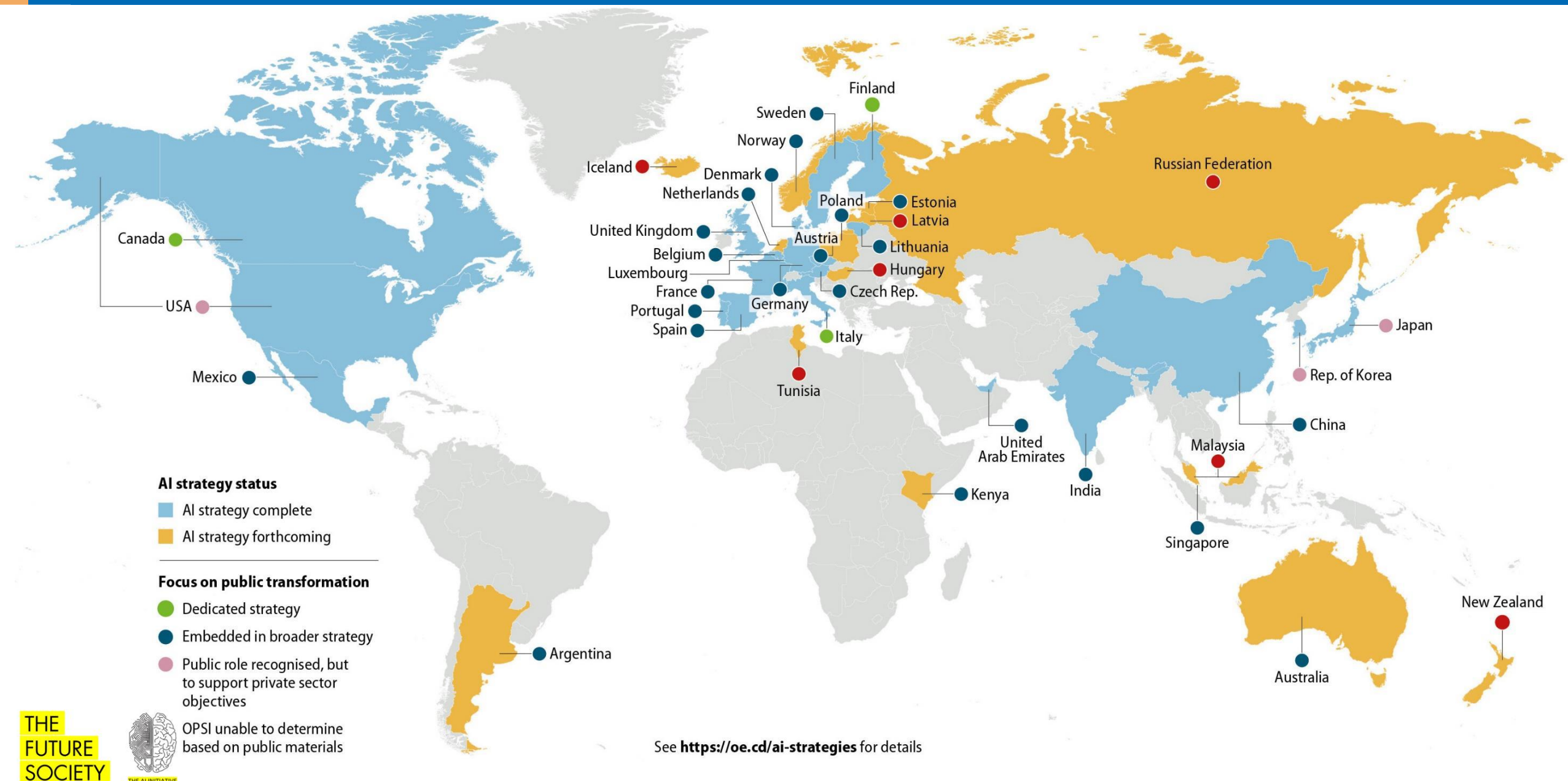


"GAFAMI"



National AI strategies taking off

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AI for Ethical

- Government
- International organizations
- Private sector including employees
- Civil society
- Academia
- Non-profits

- Filmmakers
- Artists, writers
- Sociologists
- Political scientists
- Philosophers, ethicists
- Scientists, business, engineers



“Hard law”

- Regulation



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Answer

Examples

References

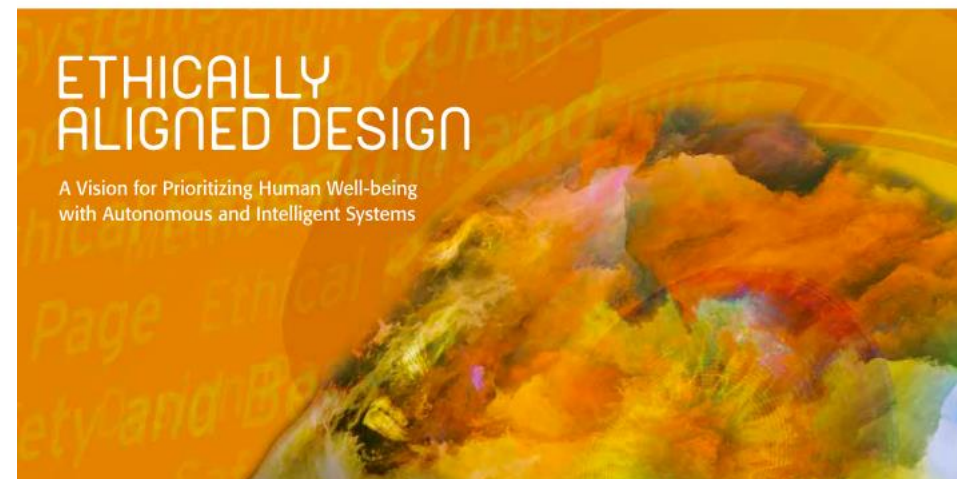
Answer

Regulation (EU) 2016/679¹, the European Union's ('EU') new General Data Protection Regulation ('GDPR'), regulates the processing by an **individual, a company or an organisation** of **personal data** relating to **individuals** in the EU.

“Soft law”

- Technical standards
- Codes of conduct
- Norms & ethics

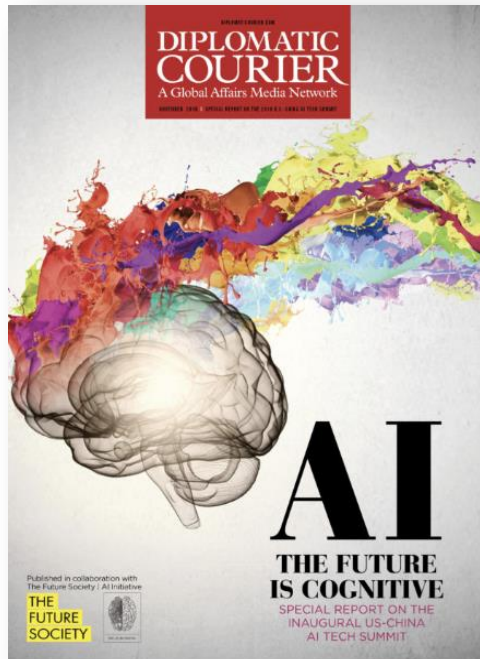
Overview - Version 2



The Cooperative Rivalry of US–China Relations

Nov 6, 2018 | **JOSEPH S. NYE, JR.**

The US and China have entered a new phase in their relationship, but talk of a new cold war is misleading. The US retains the upper hand strategically, and, on a growing number of issues, neither side can afford to go it alone.



1. We convened industry leaders from US-China for a day long forum
 2. Co-hosted with the AI-Alliance of Silicon Valley and China' s AI Industry Alliance (AIIA),.
 3. Leaders from Apple, Google, Microsoft, Baidu, JD, Bloomberg and others.
 4. Share perspectives, identify common issues, build shared understanding of how AI is developing
-
1. Such dialogue & collaboration is essential for smart global governance to manage the rise & dynamics of AI

- 
- Fairness & Non-Discrimination
 - Accountability
 - Transparency & Explainability
 - Privacy
 - Human control
 - Professional Responsibility
 - Human Values
 - Safety and Security

The Future Society gathered 250+ international, multistakeholder AI experts to collectively build a framework for governing the rise of AI including norms, guidelines, recommendations that are globally adaptable culturally flexible. Including:

OECD, UNESCO, IEEE, World Bank, OpenAI, NVIDIA, Tencent, Microsoft, Ocean Protocol, UC Berkeley, Oxford, Tsinghua Univ, Element AI, UN, ITU, ILO, UNEP, Future of Life Institute, AI4All, Berkman Klein Center at Harvard, CIFAR, UK House of Lords, African Development Bank, French National Cybersecurity Agency, European Parliament

Key objectives:

- Gather information about the state of AI
- Synthesize into actionable governance frameworks
- Serve as global authoritative forum for AI governance

Driving principles:

- Neutral forum
- Multi-stakeholder discussion
- Collective intelligence methodologies



GLOBAL GOVERNANCE
OF A.I. ROUNDTABLE
WORLD GOVERNMENT SUMMIT

Topics:

1. Mapping Current AI Technological Development & Future Trajectories
2. The Geopolitics of AI
3. Agile Governance: Multi-stakeholder Governance for Ethical and Safe AI
4. Interpretable & Explainable AI: What, Why and How
5. Governance of the Development of AGI
6. Building Capability for “Smart” Governance of Artificial Intelligence
7. Governing AI Adoption in Developing Countries
8. AI in the Judicial system, Access to justice, and the Practice of Law
9. From a Data Commons to an AI Commons
10. IPAI: International Cooperation on Global Governance of AI
11. AI for Sustainable Development Goals (SDGs)
12. Safe & Secure AI and Cybersecurity
13. Managing the Economic & Social impact of the AI revolution
14. Building Trust in AI & Role of AI Narratives

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McKinsey
& Company

Noble Purpose
Artificial Intelligence



The Global Data Commons aims to deploy AI to help achieve the Sustainable Development Goals (SDGs)

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- Capitalize on the immense volume of data to use AI to tackle the world's greatest challenges
- **Detect, present** and help **scale-up** use cases for AI enabling the 17 SDGs
- The use of AI for Sustainable Development Goals will allow to:
 - **Monitor** progress towards the achievement of SDG
 - **Simulate** implications
 - **Predict** outcomes of measures taken
 - Recommendations for policy makers

SOURCE: ITU/XPRIZE/AI for Good Summit

On Building Shared Ethical Principles for the Governance of Artificial Intelligence



THE
FUTURE
SOCIETY



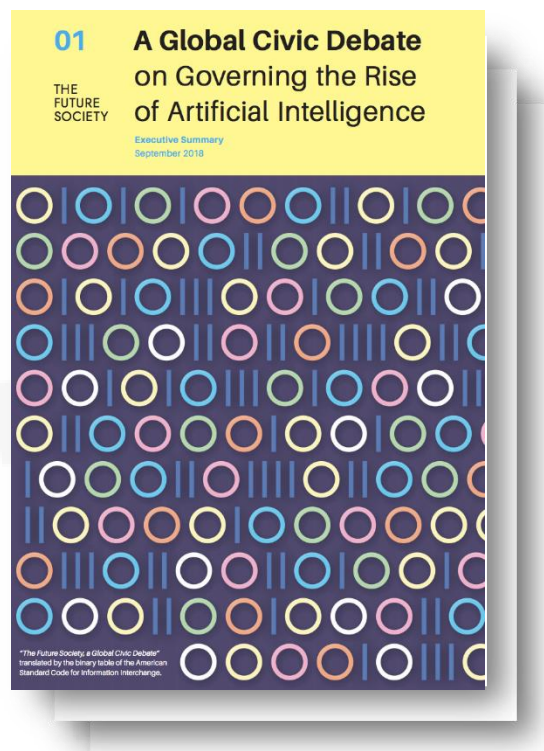
INTERNATIONAL
OBSERVATORY
ON THE SOCIETAL
IMPACT OF AI



< >
Déclaration de Montréal
IA responsable_
< / >

- Omni-stakeholder platform for dialogue across governments, organizations, citizens, academics, etc.
- Inclusive of international perspectives
- Find common ground to align across diverse values
- Based on robust collective intelligence methodology:
 - Present physically in workshops
 - Present digitally in an online platform





- Online collective intelligence platform to gather citizens, academics, policy-makers from around the world to discuss the rise, dynamics and consequences of AI
- Gathered 17 global partners, held in 5 languages, 21 online and offline events
- Over 2200 participants, 700 active writers and more than 3000 contributions on the governance of AI
- Collated key-insights in a high-impact report launched at the European Parliament

your attention!
