2ND WORLD SUMMIT OF THE COMMITTEES OF THE FUTURE 2023

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1889

Anticipatory Global Governance of Artificial General Intelligence - AGI

II World Summit on Parliamentary Committees for the Future

September, 2023

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The Millennium Project

Finland's Initiative

❖ Congratulations to Finland's Committee for the Future for initiating this World Summit Series on creating Parliamentary Committees for the Future.

❖ Their Parliamentary Committee for the Future is credited for helping Finland recover after the fall of the Soviet Union.

❖ Two key reasons it was successful:

1. It did not appropriate or allocate money; instead, it looked at future impacts of other Committee's work and that of the Prime Minister.

2. Every political party had a seat in the Committee so that as administrations changed the previous work of the Committee was not dismissed and helped keep its non-partisan orientation.

UNSG Guterres confirmed his support for a UN AI Agency and establishment a working group to draft the framework for AI governance during the July 18th UNSC first meeting on AI Security Issues
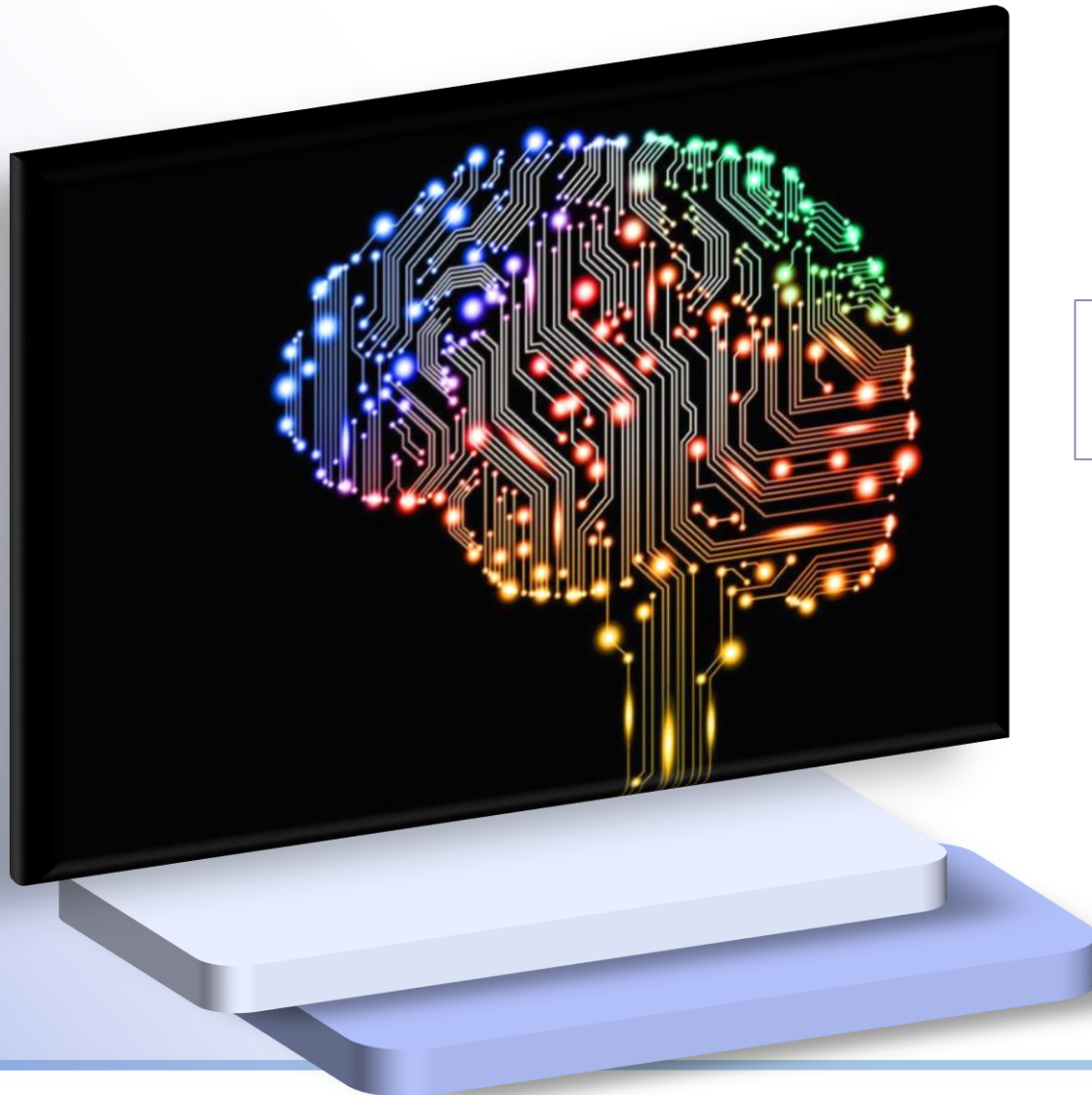
High-Level UN Meeting on AI Governance 20 September

- Key implication for the Parliamentary Summit from the September 20th United Nations meeting: UN governance of AI is inevitable, which means:

- UN Convention on AI and UN AGI Agency to enforce the Convention.

- Parliaments will have to create their national ANI and AGI regulatory systems.

- Parliaments will be asked to ratify a UN Convention on ANI and AGI.

- Harmonizing UN work and national work on AI regulations would be wise.

- For example: shut off switch:

- first by internal continuous audit system – if that fails – then notify user to shut it down - if that fails - then instant communication with the national regulatory agency – if that fails – then the UN AGI Agency

- All this will have to be worked out among AI companies, users, national regulations, and UN system.
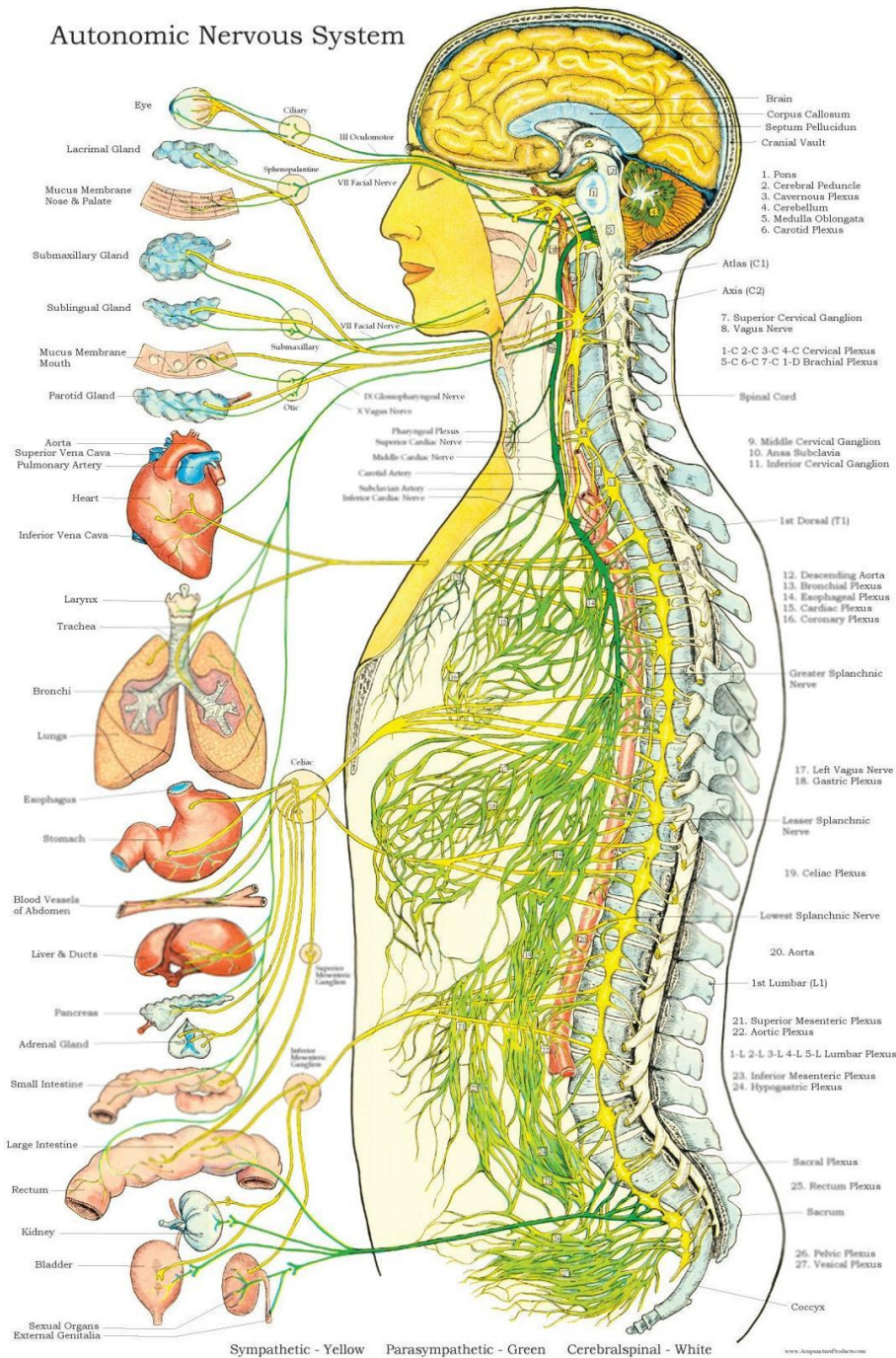
Three Forms of Artificial Intelligence

- **Artificial Narrow Intelligence**

UN Convention on AGI and UN Agency to enforce initial conditions, rules, and guardrails

- **Artificial General Intelligence**

- **Artificial Super Intelligence**

Autonomous Nervous System & Civilization

Just as the autonomous nervous system runs much of our body, freeing the mind to be creative;

AI and other Next Technologies (NT) will run much of the physical infrastructure of future civilization, freeing more of humanity to be creative.
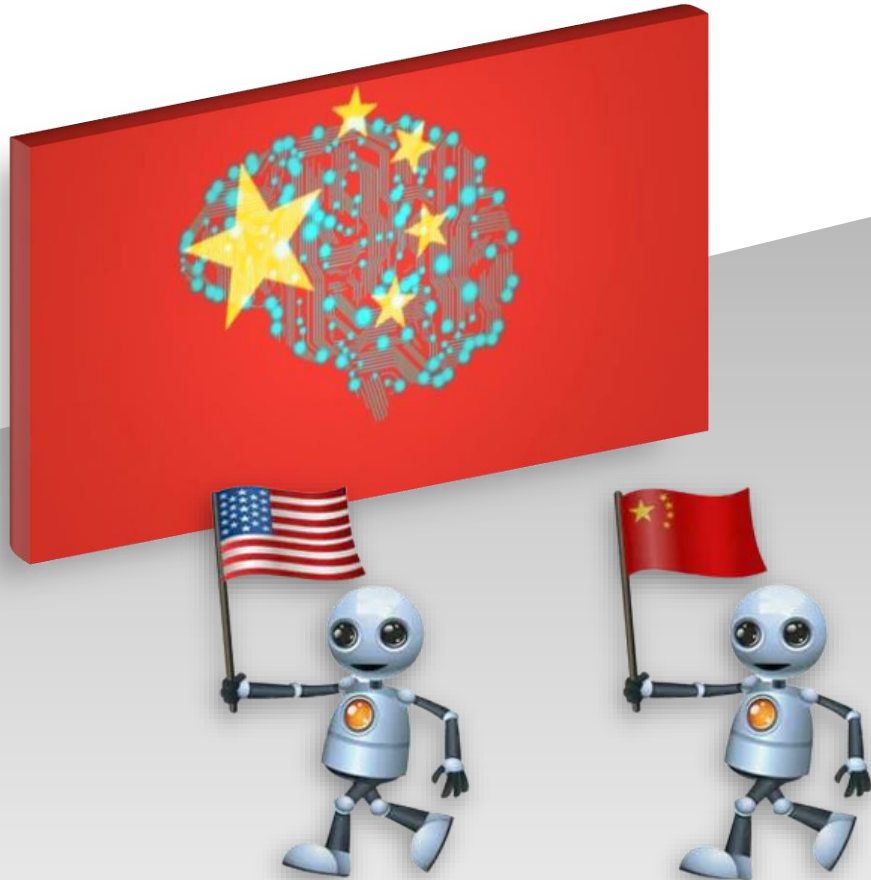
AGI is expected to be able to

1. Address novel problems without pre-programing, like ANI needs.

2. Act autonomously as if it were a conscious being.

3. Use sensors and the Internet of Things (IoT) to learn and act.

4. Make phone calls and interview people.

5. Make logical deductions, reason similar to humans.

6. Communicate with other AGI and make decisions based on such communications.

7. Re-write or edit its code to be more intelligent …continually, so it gets smarter and smarter, faster than humans.

Who ever leads AI... rules the world - Putin

China Goal: Lead the World in AI by 2030

Human Brain Projects:

USA, EU, China

Artificial Brains:

IBM, Google, Facebook, Tencent, SenseTime, MEGVII, Microsoft, Alibaba, Cloudwalk, Yitutech, Apple, Amazon

The Great AGI/Brain Race is on! But needs national and international governance

AGI will Make This Combination Far More Powerful…

…Making Democracy and Free Markets…

…An Illusion

Organized Crime

Terrorism

Corruption

Information Warfare

If we don't get the initial conditions, rules, and guardrails "right" for AGI,

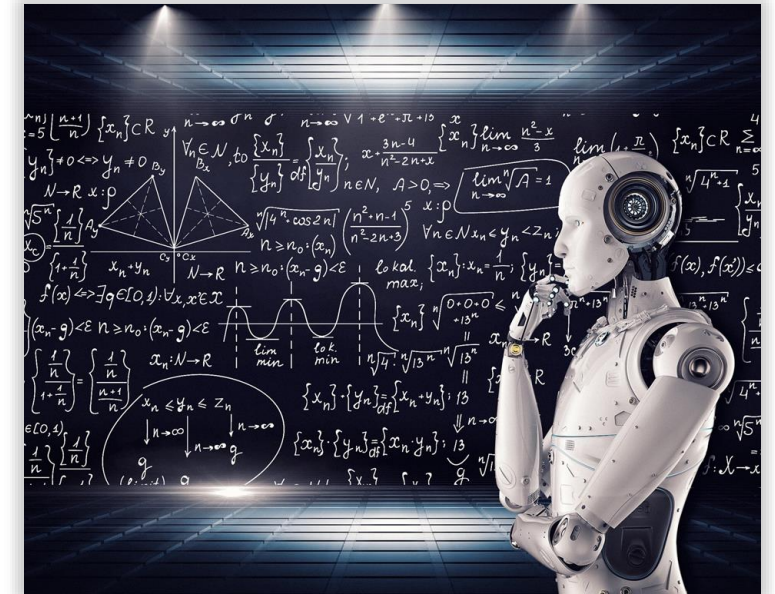then **Artificial Super Intelligence** could evolve quickly beyond our understanding.

Let's Avoid This

AGI Global Governance

- It is argued that creating rules for governance of AGI too soon will stifle its development.

- Some AGI experts believe it is possible to have AGI as soon as 3-5 years.

- Since it is likely to take that long to

  ✓ develop national and international agreements
  ✓ design an international governance system
  ✓ And begin implementation

- Then it is wise to begin exploring global governance approaches **<u>now</u>**.

We may rush into creating AGI without making sure its rules, guardrails are "right."

Examples of some potential "right" initial conditions, rules, and guardrails:

Values for ANI (IEEE, OECD, UNESCO) and Asimov's three laws of robotics.

Massively complex simulations to test AGI's alignment with these values.

Ability for humans to check why the AGI is doing something.

Ability for AGI to distinguish between how humans act vs. how we ***should act***.

Ability to determine why and how it failed or caused harm.

Self-replication with human supervision.

Cannot turn off its own off switch.

Guardrails to catch unanticipated behavior that triggers evaluation, audit correction.

Able to be continually audited and shut down if it fails the audit.

AI generated content must show its source (water mark, etc.)

Examples of global AGI governance models

1. IAEA-like model or WTO-like with enforcement powers. These are the easiest to understand, but likely to be too static to manage AGI.

2. IPCC-like model in concert with international treaties. This approach has not led to a governance system for climate change.

3. International S&T Organization (ISTO) as an online real-time global collective intelligence system; governance by information power. This would be useful to help select and use an AGI system, but no proof that information power would be sufficient to govern the evolution of AGI.

4. GGCC (Global Governance Coordinating Committees) would be flexible and enforced by national sanctions, ad hoc legal rulings in different countries, and insurance premiums. This has too many ways for AGI developers to avoid meeting standards.

5. UN, ISO and/or IEEE standards used for auditing and licensing; licensing would affect purchases and would have impact, but requires international agreement of all countries ratifying.

6. Put different parts of AGI governance under different bodies like ITU, WTO, WIPO. Some of this is likely to happen but this is not sufficient to govern all instances of AGI systems.

7. Decentralized Semi-Autonomous TransInstitution. This could be the most effective, but the most difficulty to establish since both Decentralized Semi-Autonomous Organizations and TransInstitutions are new concepts.

AGI & UBI - Why is Tech-Unemployment different this time?

1. The acceleration of technological change
2. The globalization, interactions, and synergies among NTs
3. The existence of a global platform—the Internet—for simultaneous technology transfer … with far fewer errors in the transfer than in the past
4. Standardization of data bases and protocols
5. Few plateaus or pauses of change allowing time for individuals and cultures to adjust to the changes
6. Billions of empowered people in relatively democratic free markets able to initiate activities
7. Machines can learn how you do what you do, and then do it better than you.

Recommendations

- Conduct Parliamentary hearings on:

- AI regulatory work by EC and China on ANI for implications for your own ANI regulations.

- Near-term future AGI regulatory requirements suggested by AGI companies (Frontier Model Forum: Google, OpenAI, Microsoft, and Anthropic) and (China group Tencent, Alibaba, SenseTime, MEGVII, Cloudwalk, and Yitutech), academic experts, UNSG's Envoy on Technology, OECD; UNESCO, and the Global Partnership on AI, among others.

- Coordinate draft parliamentary regulations with UNSG's working group on the framework for AI governance, and related efforts by OECD, UNESCO, and ITU.

- Offer a UN General Assembly Resolution to create a UN Convention on AGI and a UN AGI Agency to enforce it.

For more information:

The Millennium Project AGI study:

https://www.millennium-project.org/transition-from-artificial-narrow-to-artificial-general-intelligence-governance/

European Commission AGI paper for EC's Horizon 2024-2027 planning

https://www.futures4europe.eu/blogs/artificial-general-intelligence-issues-and-opportunities

3-minute video https://www.youtube.com/watch?v=Xd6at9XCD3U

Paper for the UN Secretary-General's Envoy on Technology (available October 2nd – to get a copy email Jerome.Glenn@Millennium-Project.org