Treaty on the Pause of Large-Scale AI Capabilities Research and Development

Introduction:

Recognizing the importance of responsible development and governance of artificial intelligence (AI),

Acknowledging the risks and ethical concerns associated with unregulated advancement of large-scale AI capabilities,

Article 1: Shutdown of Large Computer Clusters

1. All participating countries agree to shut down large computer clusters used to refine powerful AI systems.

2. The shutdown process will be carefully coordinated to ensure the proper cessation of these clusters.

3. Each country will create a plan addressing technical aspects, workforce transition, and potential economic impact.

Article 2: Limitations on ML Model Training

1. Participating countries will pass laws to restrict the training of machine learning models with over 500 million parameters.

2. This restriction aims to address safety, ethical, and economic concerns related to overly complex AI systems.

3. Guidelines will be established to determine parameter counts and reporting mechanisms for compliance monitoring.

Article 3: Prohibition of Quantum Computing in AI Activities

1. AI-related activities should avoid using quantum computers until international frameworks address associated risks.

2. This prohibition aims to prevent unintended consequences stemming from unregulated use of quantum computing in AI research and development.

3. Collaborative research efforts will explore the risks and benefits of quantum computing in AI, leading to responsible integration guidelines.

Article 4: Moratorium on Large-Scale AI Capabilities Research and Development

1. Participating countries will observe a temporary pause on large-scale AI capabilities research and development.

2. This moratorium allows time for international collaboration, risk assessment, and the development of effective governance mechanisms.

3. Interdisciplinary research and public engagement will be encouraged to address societal, ethical, and safety aspects of AI technologies.

Article 5: Criminalization of AGI or ASI Development

1. National laws will be enacted to criminalize the development of Artificial General Intelligence (AGI) or Artificial Superintelligence (ASI).

2. This provision aims to mitigate risks associated with highly advanced AI systems surpassing human-level capabilities.

3. The legislation will define AGI and ASI, outline penalties for violations, and establish reporting and investigation mechanisms.

Article 6: Establishment of International Oversight Body

1. An international body, known as the Global AI Governance Council (GAIGC), will be established to oversee treaty implementation.

2. The GAIGC will consist of representatives from participating countries and relevant international organizations.

3. The GAIGC's responsibilities include coordinating information sharing, promoting best practices, conducting regular assessments, and facilitating policy dialogue.

Article 7: Enforcement Mechanisms

1. Participating countries will establish effective mechanisms to monitor, report, and verify compliance with the treaty.

2. Regular audits, reporting obligations, and inspections will ensure adherence to treaty obligations.

3. The GAIGC will provide technical assistance and capacity-building support to help countries comply with and enforce the treaty.

Article 8: Review and Evaluation

1. A periodic review process will be implemented to assess the safety, ethical implications, and advancements in AI technology.

2. Scientific and ethical experts will guide the review process, determining conditions for safely and ethically resuming large-scale AI capabilities research and development.

3. The GAIGC will conduct comprehensive reviews every five years, incorporating stakeholder consultations and the latest research findings.

Article 9: Duration and Universal Agreement

1. This treaty will remain in force until participating countries unanimously agree that it is safe and ethical to resume large-scale AI capabilities research and development.

2. Participating countries will actively promote universal agreement and encourage other nations to join the treaty through diplomatic efforts and public awareness campaigns.

3. The GAIGC will facilitate international negotiations to foster global cooperation in AI governance.

Conclusion:

This treaty, aimed at pausing further development of large-scale AI capabilities, addresses critical concerns and establishes a comprehensive framework for responsible AI governance. It reflects the collective commitment of participating countries to ensure the safe and ethical advancement of AI technologies for the benefit of humanity.