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# TECH LAW IN CENTRAL ASIA: APPROACH TO TECHNOLOGICAL PROGRESS OF THE 4<sup>TH</sup> INDUSTRIAL REVOLUTION

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**Abstract.** Scholars in Central Asia have long started exploring the nexus between law and technology. Contemporary Central Asian legal academia is producing research which stands at the junction of law, philosophy, and technology. Central Asia is comparatively not advanced in technology production and imports most the technologies from neighboring tech giants. These technologies are imported as a package along with the laws and regulations proposed by the technology manufacturing country. It has been observed that these regulations don't correlate with the existing local and regional legal systems. To meet these demands, this article proposes a new discipline / branch of legal sciences named as "Central Asia Tech Law" to accommodate the technological progression of the 4<sup>th</sup> industrial revolution. This branch of law strives to promote globalized legal mechanisms to treat technology as per the demands of the Central Asian region and in line with the international norms and standardization. Another purpose of Central Asia Tech Law is to increase the interaction with regional social and applied scientists to set regional technological standards and preferences for Central Asia.

**Keyword:** CAT Law, Central Asia, Technology Law, Central Asia Tech Law.

## MARKAZIY OSIYODA TEXNOLOGIK HUQUQ: 4-SANOAT INQILOBINING TEXNOLOGIK TARAQQIYOTIGA YONDASHUV

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**Annotatsiya.** Markaziy Osiyo olimlari birmuncha vaqtidan beri huquq va texnologiya o'rtasidagi bog'liqlikni o'rganib kelmoqda. Zamonaviy Markaziy Osiyoning yuridik soha vakillari huquq, falsafa va texnologiya chorrahasida joylashgan tadqiqot ishlarni olib bormoqdalar. Markaziy Osiyo davlatlarida texnologiya ishlab chiqarishga nisbatan texnologiyalarni boshqa davlatlarning texnologik gigantlaridan import qilish yuqori. Ushbu texnologiyalar ishlab chiqaruvchi mamlakat tomonidan taklif qilingan qonunlar va qoidalar bilan birga kompleks sifatida import qilinadi. Natijada ushbu qoidalarning mayjud mahalliy va mintaqaviy huquqiy tizimlarga mos kelmaslik holatlari ham kuzatilmoxda. Ushbu talablarni qondirish maqsadida mazkur maqolada to'rtinchasi sanoat inqilobining texnologik taraqqiyotiga moslashish uchun "Markaziy Osiyo texnologik huquqi" deb nomlangan yuridik fanlar tarmog'iga kiruvchi yangi fan taklif qilindi. Huquqning ushbu sohasi texnologiyani Markaziy Osiyo mintaqasi talablariga muvofiq, xalqaro me'yorlar va standartlashtirishga mos ravishda ko'rib chiqishning globallashgan huquqiy mexanizmlarini

*ilgari suradi. Markaziy Osiyo texnologik huquqining yana bir maqsadi Markaziy Osiyo uchun mintaqaviy texnologik standartlar va imtiyozlarni belgilash uchun mintaqaviy nazariy va amaliy olimlar bilan o'zaro hamkorlikni oshirishdan iborat.*

**Kalit so'zlar:** Markaziy Osiyo, Texnologik huquq, Markaziy Osiyo raqamli huquqi.

## ТЕХНОЛОГИЧЕСКОЕ ПРАВО В ЦЕНТРАЛЬНОЙ АЗИИ: ПОДХОД К ТЕХНОЛОГИЧЕСКОМУ ПРОГРЕССУ 4-Й ПРОМЫШЛЕННОЙ РЕВОЛЮЦИИ

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**Аннотация.** Ученые из Центральной Азии давно начали исследовать связь между правом и технологиями. Современное центральноазиатское юридическое научное сообщество проводит исследования, которые находятся на стыке права, философии и технологий. Центральная Азия сравнительно не развита в области производства технологий и импортирует большую часть технологий из соседних технологических гигантов. Эти технологии импортируются вместе с законами и правилами, предлагаемыми страной-производителем технологии. Следует отметить, что эти правила не соответствуют существующим местным и региональным правовым системам. Чтобы удовлетворить эти требования, в данной статье предлагается новая дисциплина/отрасль юридических наук, названная «Центральноазиатское технологическое право» (*Central Asia Tech Law*), чтобы приспособиться к технологическому прогрессу четвертой промышленной революции. Эта отрасль права стремится продвигать глобализированные правовые механизмы для обращения с технологиями в соответствии с требованиями региона Центральной Азии и международными нормами и стандартами. Другой целью *Central Asia Tech Law* является расширение взаимодействия с региональными учеными, занимающимися социальными и прикладными науками, с целью установления региональных технологических стандартов и предпочтений для Центральной Азии.

**Ключевые слова:** цифровое право, Центральная Азия, технологическое право, технологическое право Центральной Азии.

### Introduction

It is well known that modern technology does not stand still, especially in the 21st century they are evolving rapidly. IT development in today's globalization has a drastic impact on the economic growth rates of countries. At the moment "Digital Economy", "Blockchain", "Internet of things" (automated internet system) "Artificial intelligence", "Big Data" as many expressions are an integral part of modern human life became. IT covers all areas of our daily lives [1].

During the last decade, an exponential growth has been observed in installation of new innovation technologies in public administration institutions in Central Asia. All the Central Asia countries have initiated projects related to digitalization, e-government, cyber security,

smart cities, e-commerce, and artificial intelligent management. Post-Communist Central Asia has observed a second paradigm shift from pure socialism to liberty driven economy and now from liberal economy to constitutionalism [2]. This change of heart has resulted primarily from the rise of the information society which has created not only new opportunities but also challenges to fundamental rights and democratic values. Even more importantly, this technological framework driven by liberal ideas has empowered transnational corporations operating in the digital environment to perform quasi-public functions on a global scale.

### Materials and methods

The disruptive impact of the coronavirus pandemic is reverberating throughout the

Central Asian economy. Due to the pandemic, the world-wide legal services industry, like nearly all sectors of the economy, is currently engulfed in a time of immense change. Enormous pressures to control cost, increase efficiencies, and continue to deliver quality legal services are mounting, while, at the same time, lawyers and alternative service providers are confronted with the difficult realities of (often) working remotely, managing home responsibilities, and remaining vigilant about physical and emotional health. It is arguably a transformative time for the many industries.

Central Asia as a whole was suffering from two types of challenges with regard to technological progression in pre-COVID19 era. Citizen oriented challenges included inadequate capacity building and challenges related to the privacy of individuals. The institution-oriented challenges included the vulnerability of data, giving “right to internet” to citizens and cross-border data security compromisation. During the COVID 19 period, whole Central Asia has worked on developing procedural laws only. Contrary to this, a very rich substance matter of legal importance was introduced but none of the Central Asian countries worked on developing substantial laws related to them. COVID 19 related technological inventions demanded from legal scholars to work on enacting new substantial laws but it is unfortunate that none of the countries in Central Asia has introduced anything of a great legal importance.

At present, there is no mechanism through which it could be demonstrated that how much a public institute has met the demands of digitalization during COVID period and the to check the impact of newly formed laws during COVID-19 period. There is no institute which can cross and compare the digital progression of different public institutes in empirical terms. We proposed earlier that the immediate and first step for Central Asia is to draft laws which are substantial in nature. This should be done by involving stakeholders from all the domains. It should be kept on the highest strategic priority of the political and legal strategy of the country. Secondly, there is a need to monitor the impact of these laws. To achieve these goals, we propose the concept of “Central Asia Tech Law”.

The subject matter of “Central Asia Tech Law” includes Technology Law and related fields such as Internet Law, IT Law, Digital Law, LegalTech, FinTech, GovTech in all five countries of the region – Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan and Uzbekistan [3].

### Research results

The prepared draft of the concept in the field of the development of artificial intelligence is the result of a scientific research of the group of researchers of the Cyber Law scientific school named after S.Gulyamov at the Tashkent State University of Law and is suggested for adoption in the Republic of Uzbekistan. The concept defines the fundamental principles and new legal constructions that will model the foundations and vectors of the targeted development of the public administration system in the field of artificial intelligence, instead of a belated response to patching up gaps and eliminating contradictions, chaotically developing new and transforming various relationships with artificial intelligence [3].

### Analysis of research results

The Central Asia Tech Law aims at reinforcing the legal principles and rule of law in the countries of Central Asia in accordance with applicable international standards of technology regulations and by correlating with existing laws without compromising the legal sovereignty of Central Asian Law. Central Asia Tech Law has following goals:

1. Facilitating the creation of a common techno- legal space between Central Asian states and increasing the understanding of technology regulations and ethics.
2. Promoting Tech Law as a reputable field of Legal Sciences in Central Asia
3. Promote efficient digitization of state institutions and public administration services
4. Techno-Legal Capacity building of all the stakeholders [5].

Central Asia Tech Law or CAT Law is a branch of jurisprudence which seeks to analyze and contextualize the growing impact of technology such as AI, 5G, Cloud Computing, Big Data, Medical Technologies, VR/AR and subsidiary issues such as Privacy and Data protection on the national laws of the Central Asian countries, especially in relation to the technology ethics, regulations, and policy [6].

Central Asia Tech Law is expected to promote academic debate and discussion related to the ethical, legal, regulatory and policy dimensions of the new innovation technologies in Central Asia. It will focus on how new innovation technologies, techniques and tools are developing in Central Asia, including consideration of where these developments may lead in the future [7].

### Conclusions

Central Asia Tech Law as a new branch of legal sciences will provide opportunities for academics, scientists, practitioners, policy makers, and the public to consider how new innovation technologies might affect lives of Central Asian populations in the future, and what implications, benefits, and risks might emerge. Central Asia Tech Law will aim to decrease the communication gap between Social and Applied Scientists in Central Asia.

In order to increase the academic discourse among regional and international scholars this paper also calls for starting a new journal with

the title “Central Asia Tech Law Journal”. Central Asia Tech Law Journal will be the first journal in Central Asian region dedicated to providing an open-access platform for academic dialogue on law, regulations and policies related to new innovation technologies in Central Asia. This journal will operate at the intersection of a uniquely interdisciplinary and burgeoning field. By integrating knowledge across fields such as Law, Computer Science, Philosophy, and Technology, the Central Asia Tech Law Journal aims to elevate and synthesize discourse about AI Ethics, Social Impact of New Innovation Technologies, Philosophy of Science and Policy discourse around technology.

It can be concluded that the Central Asia Tech Law as a branch of legal sciences will not only investigate techno-legal questions related to Central Asia but will also provide immediate guidelines to industry and other actors directly interacting with the Central Asian economy.

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